

MODERN HOUSE BUILDING



HODGSON

E. J. BRON
& CO.

SPECIAL NOTICE
to Builders and those Interested
in Building *of* Modern Homes
at Low Cost ♦ ♦ ♦ ♦ ♦ ♦ ♦

ALL PLANS and designs issued by us are made by licensed architects of houses that have actually been built. They not only show the carpenter and contractor the best up-to-date methods of how to construct, but give many valuable suggestions of what to build, and about the actual cost of building. This series, which has been compiled and edited by Mr. Fred T. Hodgson, Architect, contains perspective views and floor plans of innumerable houses, schools, barns, churches, etc.

WE WISH you to bear in mind that our plans are not prepared by students, but are houses positively built in different localities throughout the United States and Canada. The specification blanks and blue prints furnished by us are made with great care, and will enable any one to economically construct such houses as desired at the least possible cost.

Frederick J. Drake & Company
ARCHITECTURAL DEPARTMENT
350-352 WABASH AVE., CHICAGO, ILL.

Hodgson's Modern House Building

PERSPECTIVE VIEWS AND FLOOR PLANS
OF FIFTY LOW AND MEDIUM
PRICED HOUSES

FULL AND COMPLETE WORKING PLANS AND SPECIFICATIONS OF
ANY OF THESE HOUSES WILL BE MAILED AT THE
LOW PRICES NAMED, ON THE SAME DAY
THE ORDER IS RECEIVED.

ILLUSTRATED.

Arranged and edited by
FRED. T. HODGSON

AUTHOR OF "MODERN CARPENTRY," "PRACTICAL USES OF THE
STEEL SQUARE," VOL'S I AND II; "COMMON SENSE STAIR
BUILDING," "ARCHITECTURAL DRAWING SELF
TAUGHT," "MODERN ESTIMATOR AND
CONTRACTOR'S GUIDE."



SEND ALL ORDERS FOR PLANS TO
FREDERICK J. DRAKE & COMPANY
ARCHITECTURAL DEPARTMENT
350-352 Wabash Avenue, CHICAGO, ILL.

COPYRIGHT, 1905
BY
FREDERICK J. DRAKE & CO.
CHICAGO



PREFACE

The growth of a wish of late, among the mercantile, professional and working classes, for a better architectural effect in houses designed solely for themselves, and the increased requirements of our progressive citizenship, are facts with which the architect of the present day has to reckon, if his practice runs on these lines, which should be by no means an uninteresting branch of his profession.

In the following pages an effort has been made—and one which we think has been completely successful—to produce just such houses as will meet these wider and commendable aspirations of the great bulk of the American people to own and live in houses that are comfortable, healthy and of the very best design commensurable with their cost. The works of the best architects in this line have been secured, and care has been taken that each plan, elevation and detail, and general character of finish, internal and external, will

harmonize and be in keeping with the whole when completed.

To design a house complete throughout within close economic limits, is one of the most difficult propositions an architect can undertake; yet, we find very handsome and comfortable houses designed and built for a sum so small that it becomes a matter of amazement when the cost and building are compared with the cost of buildings no better or larger. This result is not a matter of hazard, it is the finishing stroke of genius and painstaking; and we have hunted over the whole of this great country, from Galveston to Alaska, and Maine to the Pacific coast, for artists gifted with this rare power, and we confess to having found but a few, and we have not been slow in securing the services of most of those found; and this fact gives us unbounded confidence in the quality of the work we present herewith to our readers, as we feel certain that no work ever before published in this or in any other country can show such comfortable, cosy, and artistic houses as can this book and our Hodgson's "Low Cost American Homes."

No head of a family, no matter what his condition in life may be, can look over the house plans presented in this work without being able to find one or other design that will suit him both as to lay-out and cost, unless he be a person of large means and desires a mansion or a villa, and for such persons this book is not intended.

Convenience, facility in doing the family work, and pleasantness of internal aspect and arrangements, have been the aims of our architects in preparing these designs, for, like ourselves, they believed that every improvement in the abodes of men and women which renders them more neat, comfortable, and pleasing, contributes not only to physical enjoyment, but to mental and moral advancement. This idea, so important and encouraging, has been considered in every design presented, and an endeavor throughout has been made to exhibit correct principles in art, and to foster a pure and just taste, for in these alone is to be found a corrective power that can check the universal tendency to imitation—a passion which almost invariably prefers the meretricious to the true.

The correctness of these plans is guaranteed by the fact that each one of them has been submitted to an expert builder in order to discover if any discrepancies existed after leaving the architect's study, and to see whether the specifications and plans agreed; and we may add, that many houses have been erected direct from plans published in this work, and we have yet to hear the first complaint. These facts are significant, inasmuch as they show that almost any country mechanic can follow the plans without difficulty, and complete his building to the satisfaction of all concerned.

With regard to the estimated cost of the buildings as published, we may say right here, that to give figures that will stand for all time and for all localities, is an impossible task. The mercurial conditions of the markets where materials and labor are concerned, prevent anything in the shape of fixed figures of cost. What may be the correct cost to-day will very likely be too much or too little to-morrow, and what may be correct in Chicago will be astray in Portland, Oregon, or in Pittsburgh, Pa., so that figures given showing the

probable cost of any structure, no matter where the figures are given, should be looked upon with suspicion, and never accepted as being correct. The published cost of buildings such as we exhibit in the present, show simply the amounts the *building would cost at this writing and in or near the city of Chicago*. To-morrow the amounts may be all wrong. We wish this phase of the subject thoroughly impressed on the minds of the purchaser of this work; then no misapprehension of our intention can occur.

The cost of the buildings illustrated, as published, will always remain *approximate*, and will give the intending builder a fair idea of what his house should cost, but we would in every case advise that tenders for the work be asked for, either in bulk or for the separate trades; then there can be no mistakes made as far as the cost of the whole work is concerned.

We send out this little book to the great American Public with a feeling of confidence, knowing it will be appreciated by all those who have a desire to uplift the architectural taste of the people, and to add to their natural

comforts and happiness; and should this production be the means, in ever so small a measure, of accomplishing these ends it will be most gratifying and comforting to the

F PUBLISHERS.

THE PLAN BOOK

INTRODUCTORY

"When we mean to build,
We first survey the plat, then draw the model;
And, when we see the figure of the house,
Then must we rate the cost of erection;
Which, if we find outweighs ability,
What do we then but draw anew the model
In fewer offices; or, at least, desist
To build at all? Much more in this great work
(Which is almost to pluck a kingdom down,
And set another up) should we survey
The plat of situation, and the model;
Consent upon a sure foundation;
Question Surveyors; know our own estate,
How able such a work to undergo;
To weigh against his opposite: or else
We fortify in paper and in figures,
Using the names of men instead of men:
Like one that draws the model of a house
Beyond his power to build it; who, half through,
Gives o'er, and leaves his part-created cost
A naked subject to the weeping clouds,
And waste for churlish winter's tyranny."

—*King Henry IV*, Act 1, Scene 3.

As Shakespeare says, when a man is about to build a house, "he must first survey the plat." That is, he must first consider the site; indeed, this is one of the most important

things that should enter into the consideration of a person who is about to build himself a home. Often there can be no choice in the matter, particularly if the intending builder is limited in means and compelled to purchase a small lot in village, town or city, but even then something may be done to make the home more cheery and more comfortable than it otherwise would be if forethought had not been employed in placing the house, for it must never be forgotten that a mistake made in placing a house cannot be rectified after the building is perpetuated in stone, bricks and mortar, or wood, only at large expense and trouble.

After the plan of a house has been decided upon, there follows the placing of it, but before doing this the prevailing winds and the dashing rains should be considered, and the rooms most used should be placed on the side or end least affected by these or similar storms. When the grounds are large the house should be placed on a moderate elevation, or raised high by a stone foundation. The matter of drainage should also be considered and ample provision made for getting rid

of sewage. In the north and west have the living part of the house, verandas and porches on the south side, or as nearly so as conditions will allow. A very good front may be obtained by facing the house southeast. When it can be done, have the house back from the street or road. This gives opportunity for a lawn, shrubbery and trees.

Speaking of *sites*, a noted author says: "First, the aspect due north is apt to be gloomy, because no sunshine ever cheers a room so placed.

"Secondly, the aspect due east is not much better, because there the sun only shines whilst we are in bed.

"Thirdly, the aspect due west is intolerable, from the excess of sun dazzling the eyes during the greatest part of the day."

This being the case, we may conclude that a square house placed with front opposite the cardinal points, will have one good and three bad aspects.

If the ground on which the house is to be built is of a loose, porous soil, so much the better; if it be wet or formed of damp clay, good drainage must be provided, and care

taken to lay good damp courses in the walls of the house, or it will always be damp and chilly. Pure dry sand or gravel make excellent sites for building purposes, and next to these rocky soils may be chosen, but above all beware of made lands, for often such places are nothing more or less than death-traps.

Wherever possible a cellar or basement should be excavated under the whole house, for several reasons. Where this cannot be done, or the cost is too much, have a cellar under the kitchen anyway. The cellar is one of the most useful places in a house.

If a house is built in corporation limits where there is a water system, of course the water supply will be all right, but where a well or a cistern supplies the water, care must be taken that no cesspool, privy vault or other similar objectionable excavations be within at least seventy-five feet from the well or cistern. Wells in country places are usually sunk but to a limited depth, and the liquid sewage from cesspools soaks through the porous subsoil down to the water stratum, and carries with it the germs of typhoid and other dangerous diseases. If the water is obtained from a well

bored in the rock anywhere from forty to one hundred feet in depth, it may be considered fairly good and free from dangerous germs.

Household waste should be run into the cesspool, and the kitchen sink should also be connected with the cesspool by a good-sized waste-pipe which is well "trapped" both at the house end and near the exit; it should also be well ventilated. Without there can be a connection with a water supply system, there should be no closets in the house. The privies should be some distance from the house, hidden by trees, shrubbery, or high screen. The privy vault should be lined with stone or with plank, and should be so arranged that the contents may readily be removed. Privies are always objectionable necessities for several reasons. They are usually unsightly, they pollute the air and soil, taint the water and render living near them disagreeable. Earth or ash closets are far superior to the ordinary privy, and are easily constructed and as easily kept clean and sweet. These may be put up in the back shed, so that persons who have to use them need not be compelled to face the cold and storms to reach them. The earth-

manure can be advantageously made use of in the kitchen garden or on the flower beds, or else it may be disposed of to persons who want that kind of stuff for their gardens or farms.

No house should be without a bath-room or at least a bath-tub. Where there is no water supply, the tub might be placed as near to the kitchen as possible, and on the same floor, so that hot and cold water may be conveyed to it with little trouble. The waste water should be run off to the cesspool; the pipes may be connected with the waste-pipe from the kitchen sink.

The manner of warming a house will depend very much on conditions. In houses such as are exhibited in this volume, every method of heating can be employed. The unpretentious cottage without a regular water supply may be warmed by open fireplaces, stoves or hot-air furnaces, and the more expensive buildings, where a supply of water under pressure is available, by steam or hot water.

The open fireplace in a severe climate is practically useless, unless it be for ventilation or artistic purposes, as about 85 per cent of the heat goes up the chimney, a matter which

means a great waste of fuel. In the spring and fall of the year, an open fireplace is a nice thing to have in the house, as then a little fire heat goes a long way. They are ornamental and give to a room a home-like and cosy appearance.

Coal stoves are probably the best heating appliance for small cottages, particularly if they are of the self-feeding kind, as then regular fires can be kept going all night long without requiring any mending; a very comforting condition.

Hot-air furnaces may be used to advantage in the smaller houses, but they should always be placed in that part of the basement where the prevailing winds strike, as no matter how tight and close the walls of a house may be built there will always be a current of air forced through them; this current will control the direction of the hot air.

When water under pressure is available, steam or hot-water heating is far the better mode. In either case, the heat can be directed and governed, two very important matters in heating. Both these methods of heating are expensive at first, but when installed, they are

the most economical to run, as the amount of fuel required to heat the whole house will be very much less than if stoves or hot-air methods were employed. Of the two methods, the writer prefers the hot-water for several reasons that are not necessary to mention here, but it may be taken for granted that hot-water heating when properly installed will in every case give complete satisfaction in domestic work. For large buildings, such as hotels, factories, hospitals, etc., steam answers the purpose better perhaps than hot water. It should be understood that for both hot-water and steam heating the furnaces or boilers should be below the level of the main floor, which in most cases necessitates a cellar or basement.

A square kitchen will generally be found to be the handiest to work in, but sometimes it is found impossible to have a room of such a shape. It should contain, besides the regular stove or range, a sink with large drip-board, large china cupboard, plenty of shelf room and an abundance of hooks to carry pans and other cooking utensils. The floors should be of hardwood laid in narrow strips. It should

also contain a good solid kitchen table, and a dresser, and be supplied with hot and cold water. As the kitchen is the "stomach of the house," it should be well supplied with all sorts of kitchen appliances.

When the rooms of a house are being laid out by the carpenter, before he puts up his partitions it is a simple matter to so make the dimensions of each room that a carpet can be fitted to it without having to cut in the direction of its length. One dimension of the room can always be arranged so that no cutting of carpet will be necessary. The standard widths of carpets are three-quarters of a yard, or 27 inches, and one yard, or 36 inches, and bearing these facts in mind, the carpenter can always manage so as to place his partitions to suit the proper widths. A room that is 8 or 10 inches over an even number of widths of carpet is a nuisance and makes it an expensive matter, as a whole strip of carpet must be split in order to fill up the space. Heavy carpets should not be tacked down; if properly laid, they will be better for being loose.

In most of the plans given in this volume

the dining-room is longer than it is wide, and this is a good feature, as it enables the hostess to seat more people at table than could be in a square room having the same area. This room should always contain a side-board, and if cost does not interfere, a dainty little china or glass closet. This latter may be hung on the wall the same as a small cabinet. The colors in this room should be light and cheery and the furnishing in keeping. A dining-table varies from 3 feet 6 inches to 4 feet 6 inches wide, and there should be room for one 6 feet to 7 feet long, and more at times, and a sideboard, one or two armchairs, often a couch, or settee, and if there is no study, the books of the house and a writing table may be here also. The room, therefore, should not be too small (as it often is), and in this room in particular it is well to remember that doubling the area will not double the cost of a room. The best aspect for this room is southeast. Where this room is general living room as well as dining-room, a large bay or transept, making the room "L"-shaped, gives an interesting as well as convenient room. The bay is purely living room, the other end of the

"L" having the dining-table; the remaining portion has the fireplace, and may be considered as belonging to each branch of the "L" in turn.

The parlor, which is supposed to be the "show room" of the house and the one on which the most money is spent in decorating and furnishing, is generally the most difficult to deal with in regard to decoration and color. In most cases, persons going into a new house have most of their furniture on hand, and when this is the case, the color of the room, carpets, etc., should harmonize with the furniture. In these days of general prosperity and advancement, the humblest artisan will generally manage to procure for the use of his wife or children either a piano or an organ; and this should constitute the color motive for the whole parlor. Generally the finer taste of the good housewife will, if conditions will admit of it, arrange the color in the parlor much better than the man of the house, she knowing what furniture she has to display, and possessing a keener color instinct. If all the furniture and hangings are to be new, then a complete color scheme may be laid out in

accordance with the taste of the parties who are to occupy the house.

The hall should be made to look cheerful, as the first impressions on the visitor are made in this room, and they stay after all the memories of other rooms have faded away. Light, cheerful paper should be used if paper is used at all, and the woodwork should be tinted in lively tones. The stairway should be made to look inviting, and the whole hallway and entrance should show a "hearty welcome" from every point of view.

Bed-rooms should have plenty of light, and children's bed-rooms should be made as light and cheerful as circumstances will permit. The walls might be tinted rose or pink, or be covered with bright terra-cotta paper, and the walls should have a goodly supply of cheerful pictures hung on them so that the children may see them in a morning when awaking from sleep. An abundance of good fresh air should make its way into the room during the day, and a fair supply, without draft, should be admitted at night.

These few hints, I hope, will be of more or less service to those who buy this book with a

view of building after some one of the plans it contains.

It may be that in some instances the plans shown may be just what is desired, but they happen to be in a reverse position. This is a matter that is easily rectified, as any carpenter, having the usual amount of knowledge workmen possess, can readily work the plan either way. The measurements will always be the same and it is only a matter of laying out the work in a reversed manner to that shown on the plans. A simple method of overcoming this difficulty—if difficulty it is—is to hang up the drawing in a window pressed against the glass, face or blue side out, and have a strong light pass through the glass and the drawings; then the dimensions and details can be taken off from the inside of the paper. This, of course, is only an expediency, but it does very well in the absence of a set of reverse plans.

The plans also may be reversed by the use of thin paper on which a tracing from the original is made. The back of the paper will show the reverse plan, on which the figuring and reference letters or other printing may be

written in, the reverse of the original. This is a very simple matter, and the skillful work man will scarcely bother his head about making any reverse plan, but will work out all his wants from the original blue print.

Of What our Plans Consist

ALL OF OUR PLANS are accurately drawn one-quarter inch scale to the foot.

We use only the best quality heavy Gallia Blue Print Paper No. 1000X, taking every precaution to have all the blue prints of even color and every line and figure perfect and distinct.

We furnish for a complete set of plans :

FRONT ELEVATION
REAR ELEVATION
LEFT ELEVATION
RIGHT ELEVATION
ALL FLOOR PLANS
CELLAR AND FOUNDATION PLANS
ALL NECESSARY INTERIOR DETAILS

Specifications consist of several pages of typewritten matter, giving full instructions for carrying out the work.

We guarantee all plans and specifications to be full, complete and accurate in every particular. Every plan being designed and drawn by a licensed architect.

Our equipment is so complete that we can mail to you the same day the order is received, a complete set of plans and specifications of any house illustrated herein.

Our large sales of these plans demonstrates to us the wisdom of making these very low prices.

ADDRESS ALL ORDERS TO

FREDERICK J. DRAKE & CO.

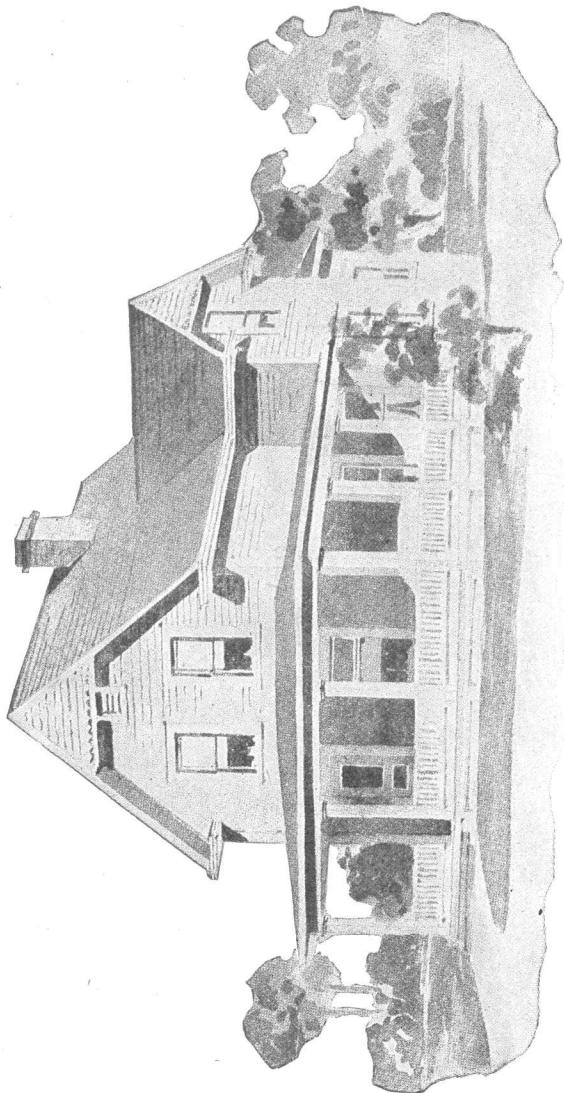
Architectural Department

350-352 Wabash Avenue

CHICAGO

INDEX

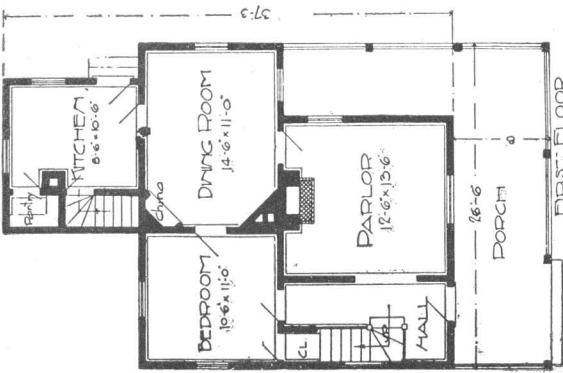
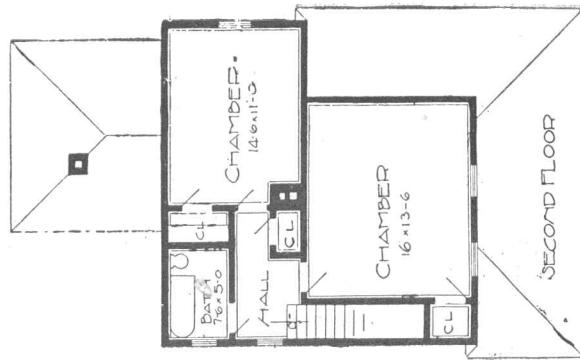
No.	Estimated Cost	Blue Prints and Specifications	No.	Estimated cost	Blue Prints and Specifications
1501	\$ 900.00	\$ 5.00	2116	1,775.00	8.00
1502	1,300.00	6.00	2117	1,700.00	8.00
1503	1,200.00	6.00	2118	1,850.00	8.00
1504	800.00	6.00	2119	1,700.00	8.00
1505	1,300.00	6.00	2120	1,675.00	7.00
1506	1,250.00	6.00	2121	1,900.00	8.00
1507	1,250.00	6.00	2122	1,900.00	8.00
1508	900.00	5.00	2123	2,500.00	10.00
1509	900.00	5.00	2124	900.00	5.00
1510	900.00	5.00	2125	1,500.00	7.00
1511	1,300.00	6.00	2126	2,000.00	15.00
1512	1,300.00	6.00	2127	1,300.00	6.00
1513	1,300.00	6.00	2128	1,250.00	6.00
1514	800.00	5.00	2129	850.00	5.00
1515	1,350.00	6.00	2130	500.00	5.00
1516	1,000.00	5.00	2131	450.00	5.00
1517	1,100.00	6.00	2132	500.00	5.00
1518	900.00	5.00	2133	325.00	5.00
1519	800.00	5.00	2134	1,200.00	6.00
1520	1,000.00	6.00	2135	1,200.00	6.00
1521	900.00	5.00	2136	2,000.00	10.00
1522	1,200.00	6.00	2137	1,600.00	8.00
1523	950.00	5.00	2138	500.00	5.00
1524	1,000.00	6.00	2139	1,600.00	8.00
1525	1,100.00	6.00	2140	2,100.00	10.00
1526	850.00	5.00			



House Design No. 1501

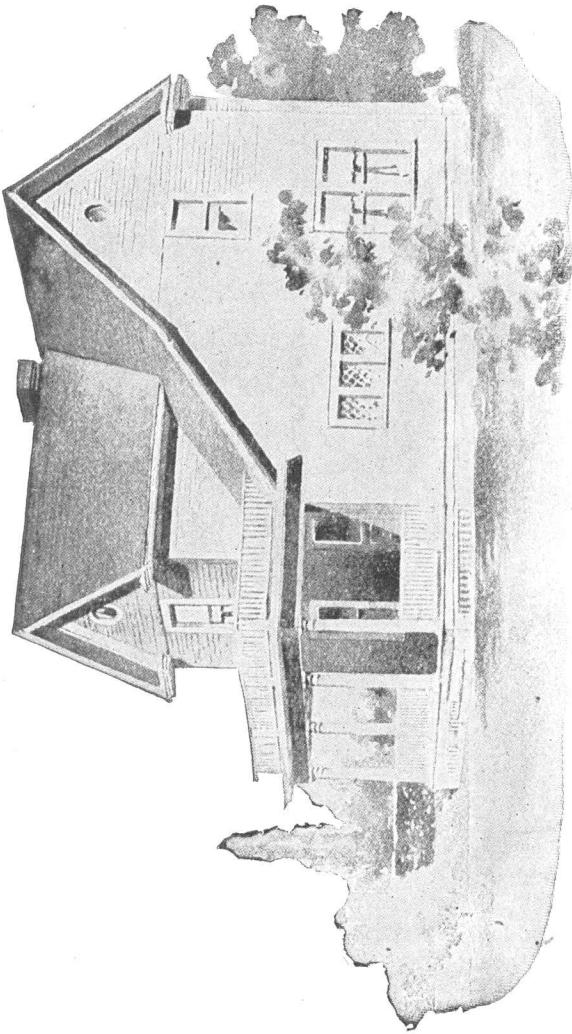
Floor Plans of No. 1501

SIZE:
Width, 26 feet 6 inches
Length, 37 feet 3 inches



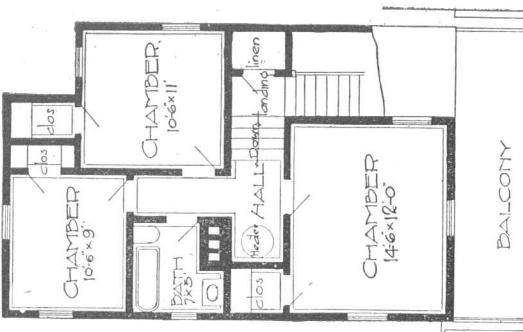
Blue prints consist of cellar and foundation plans; roof plan; floor plans; front and side elevations.

Complete typewritten specifications with each set of plans.



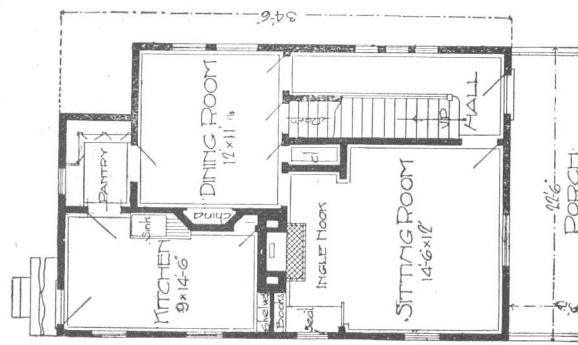
House Design No. 1502

Floor Plans of No. 1502



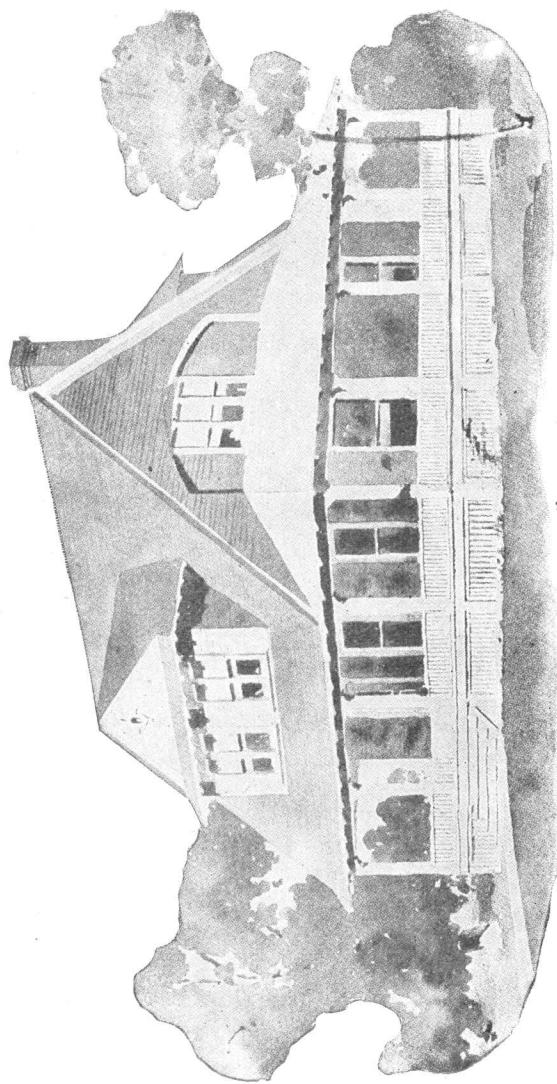
SIZE:

Width, 22 feet 6 inches
Length, 34 feet 6 inches



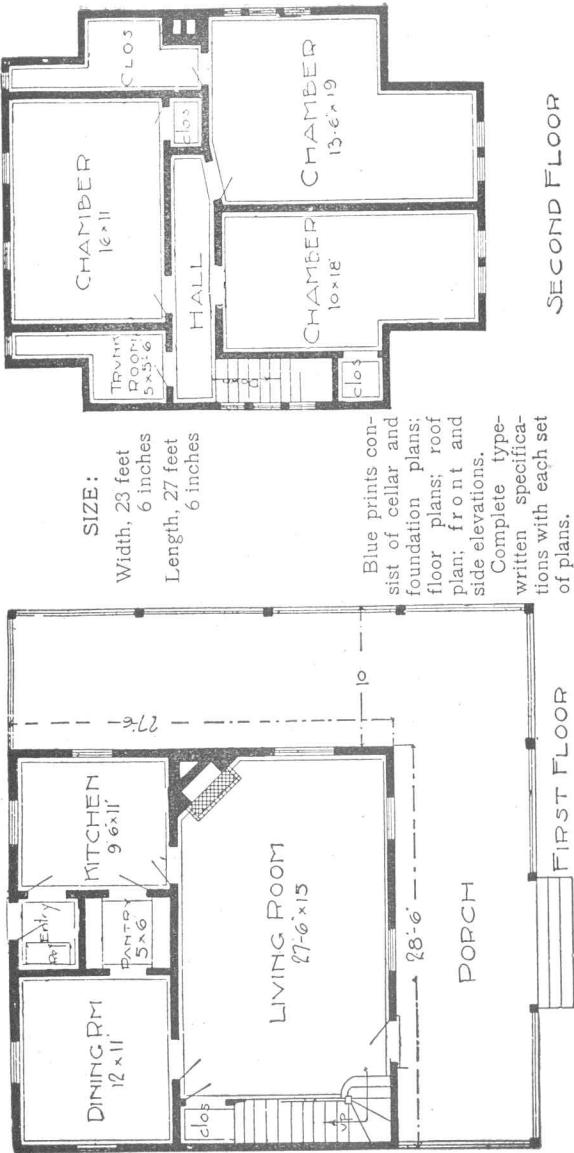
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.

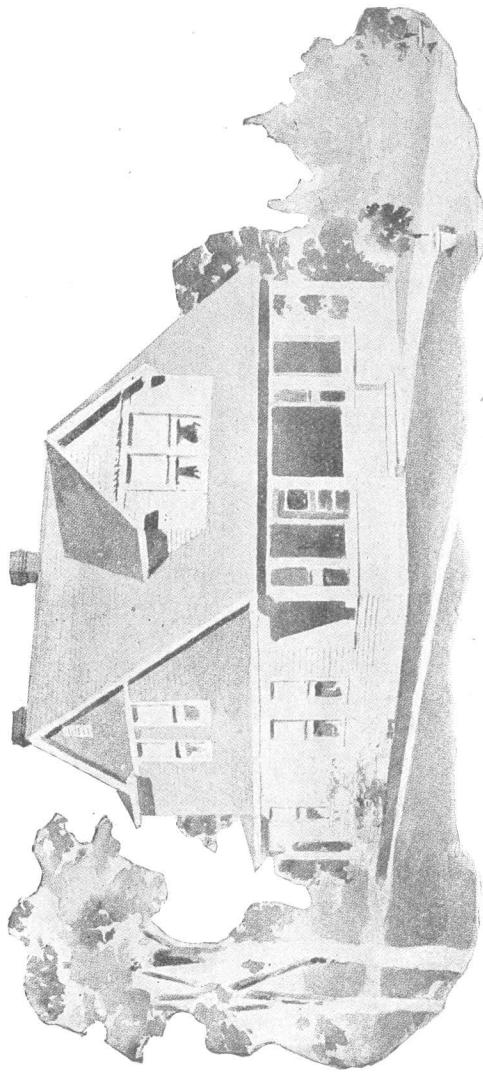
Complete typewritten specifications with each set of plans.



House Design No. 1503

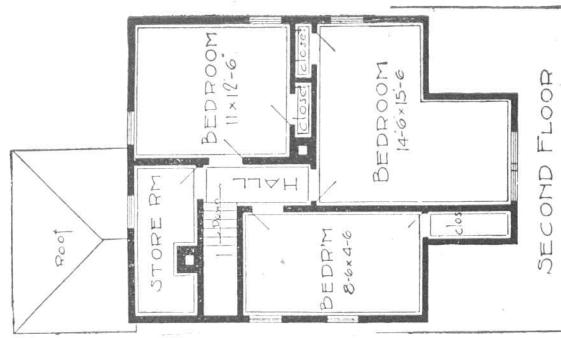
Floor Plans of No. 1503





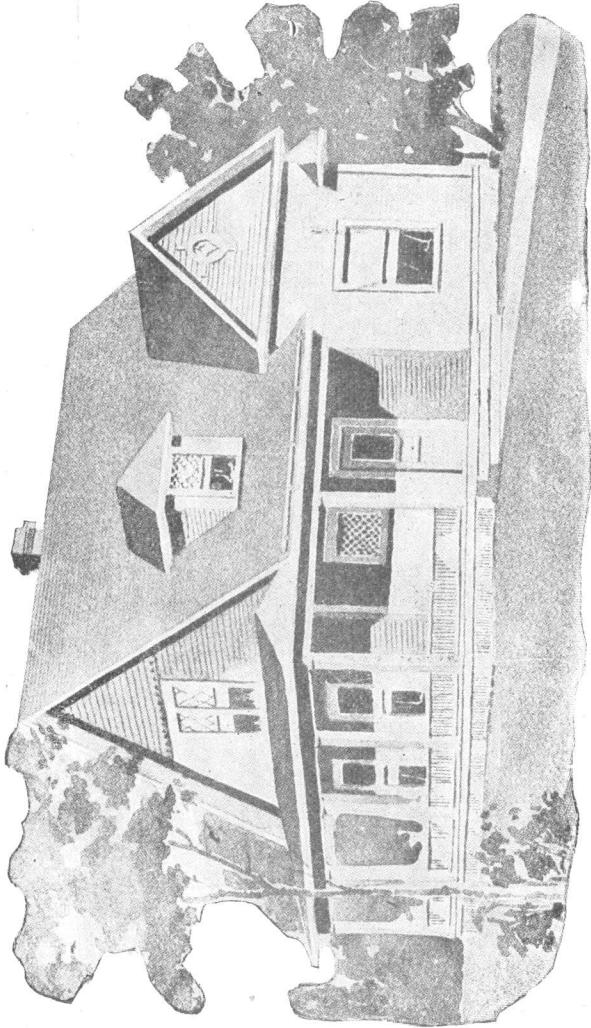
House Design No. 1504

Floor Plans of No. 1504



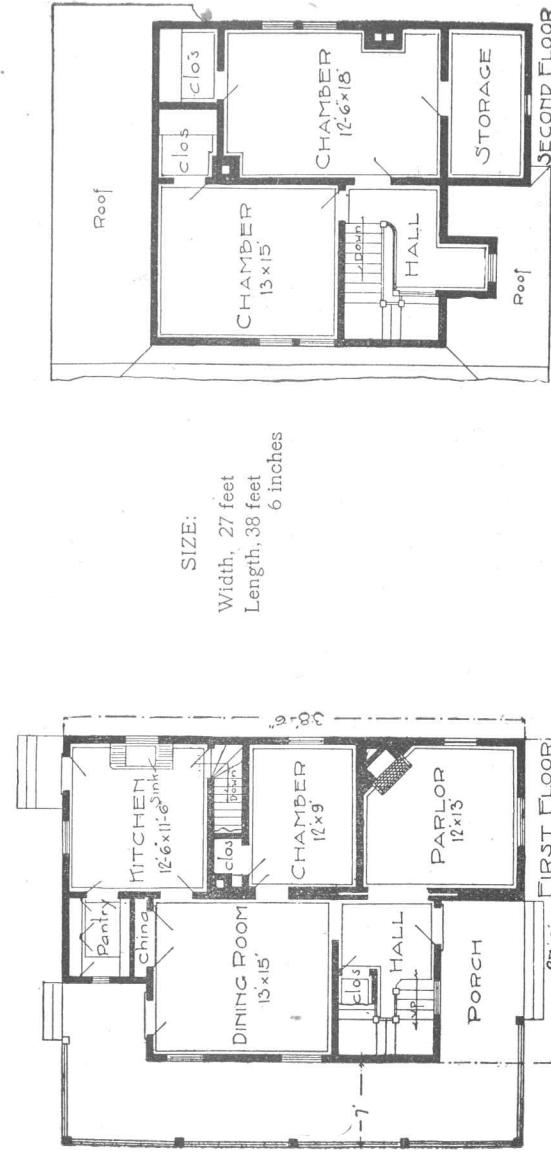
SIZE:
Width, 24 feet 6 inches
Length, 36 feet

Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

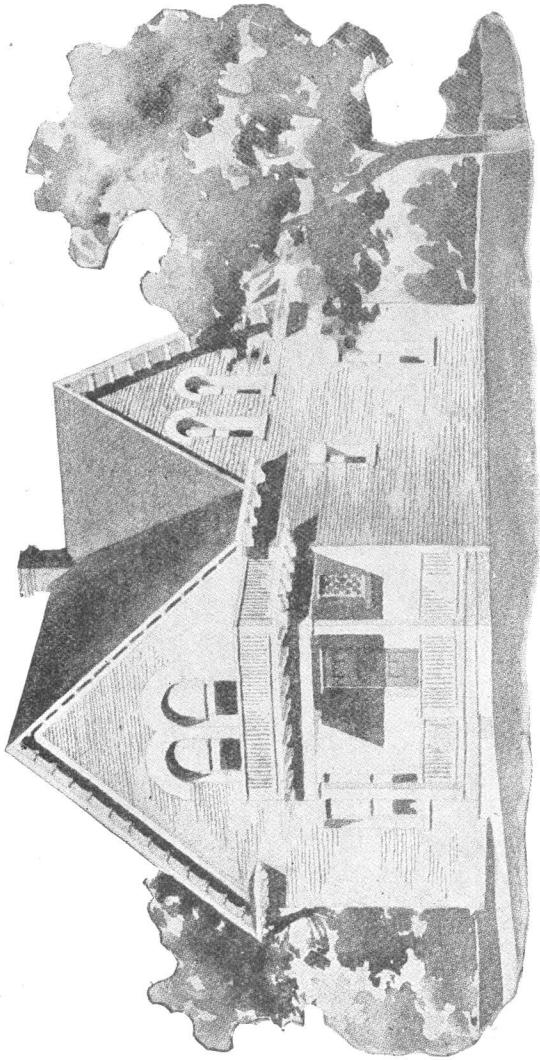


House Design No. 1505

Floor Plans of No. 1505

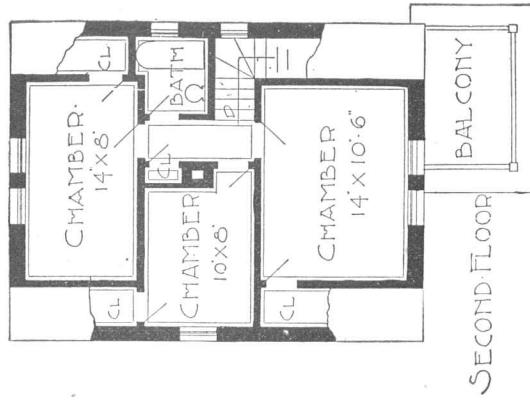


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



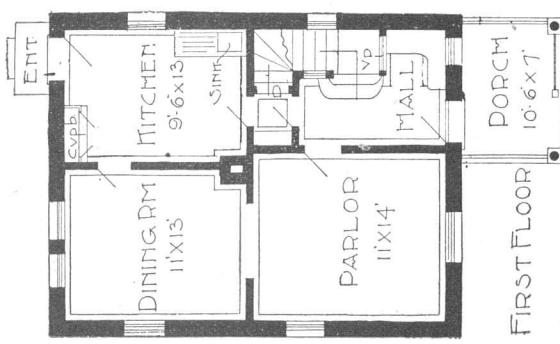
House Design No. 1506

Floor Plans of No. 1506

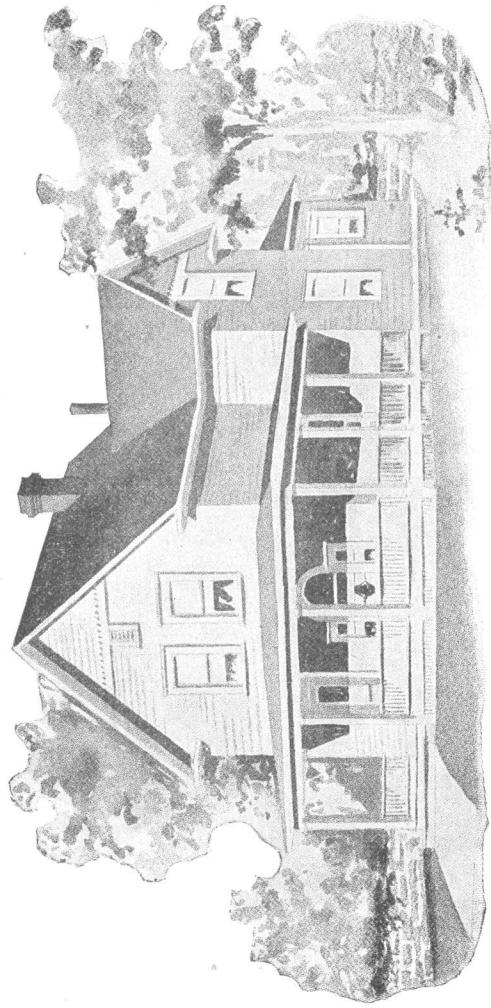


SIZE:

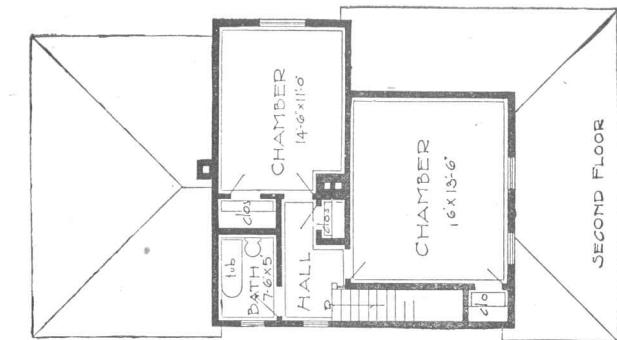
Width, 22 feet
Length, 29 feet
2 inches



Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



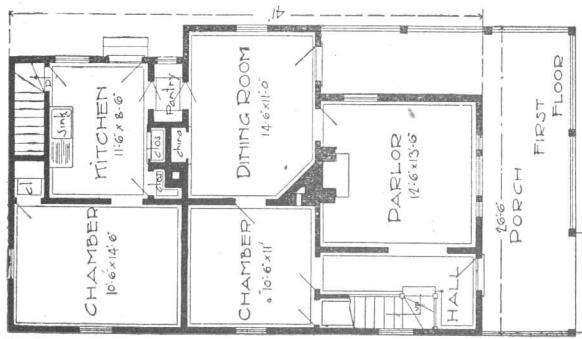
House Design No. 1507



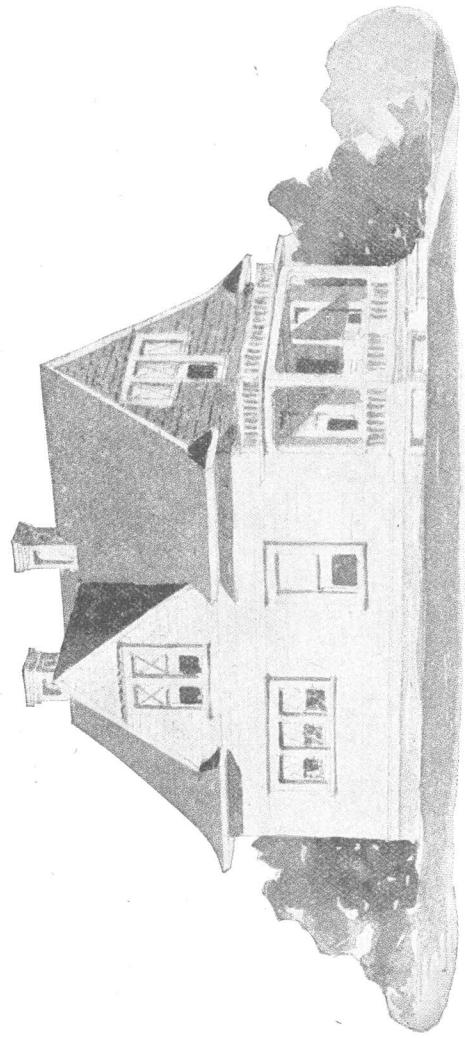
Floor Plans of No. 1507

SIZE:

Width, 26 feet 6 inches
Length, 41 feet

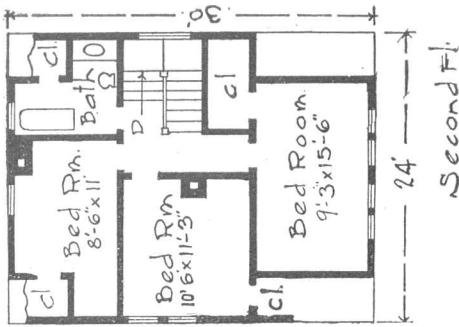


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

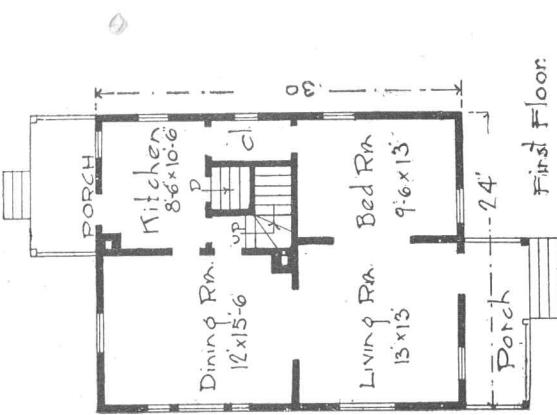


House Design No. 1508

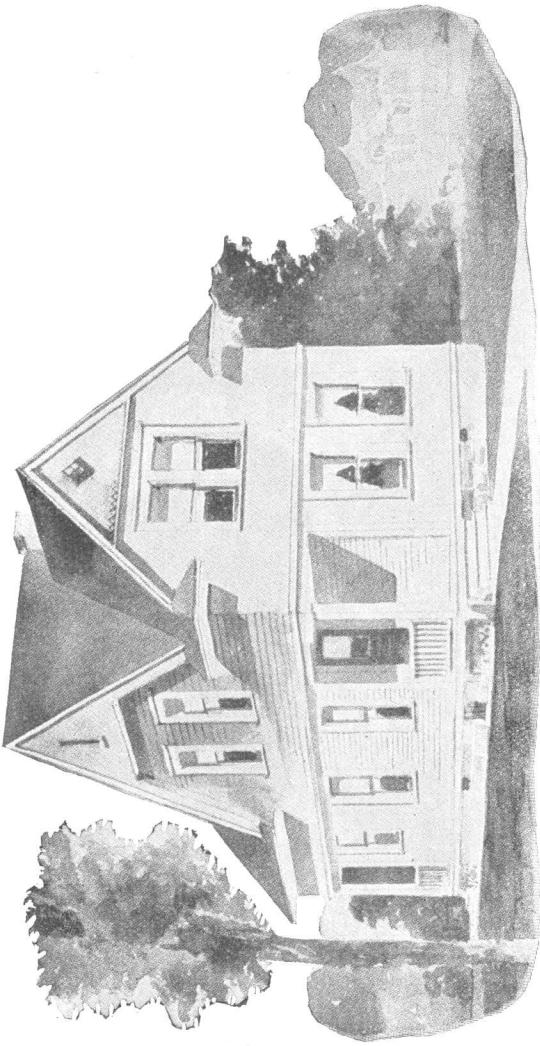
Floor Plans of No. 1508



SIZE
Width, 24 feet
Length, 30 feet

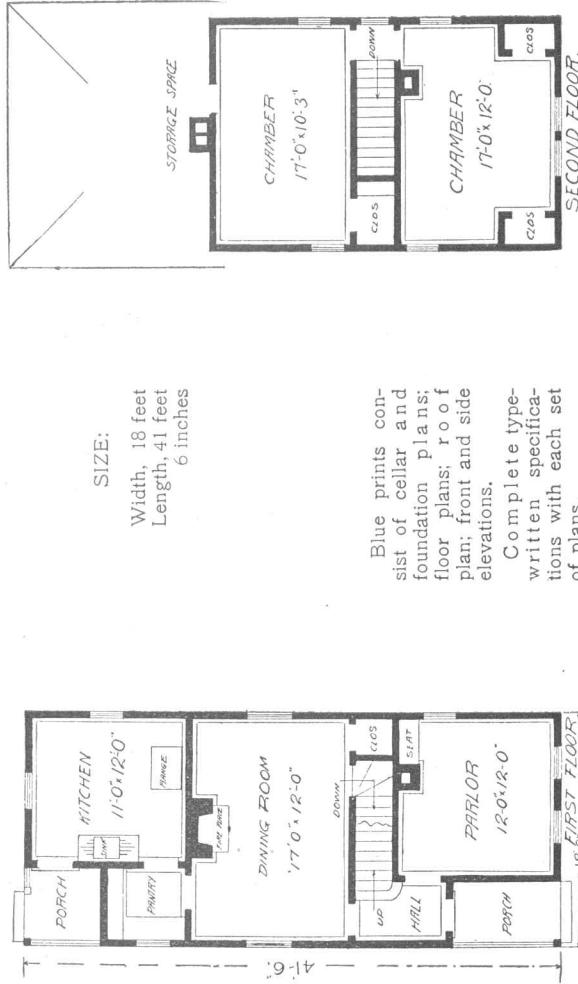


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 1510

Floor Plans of No. 1510



SIZE:

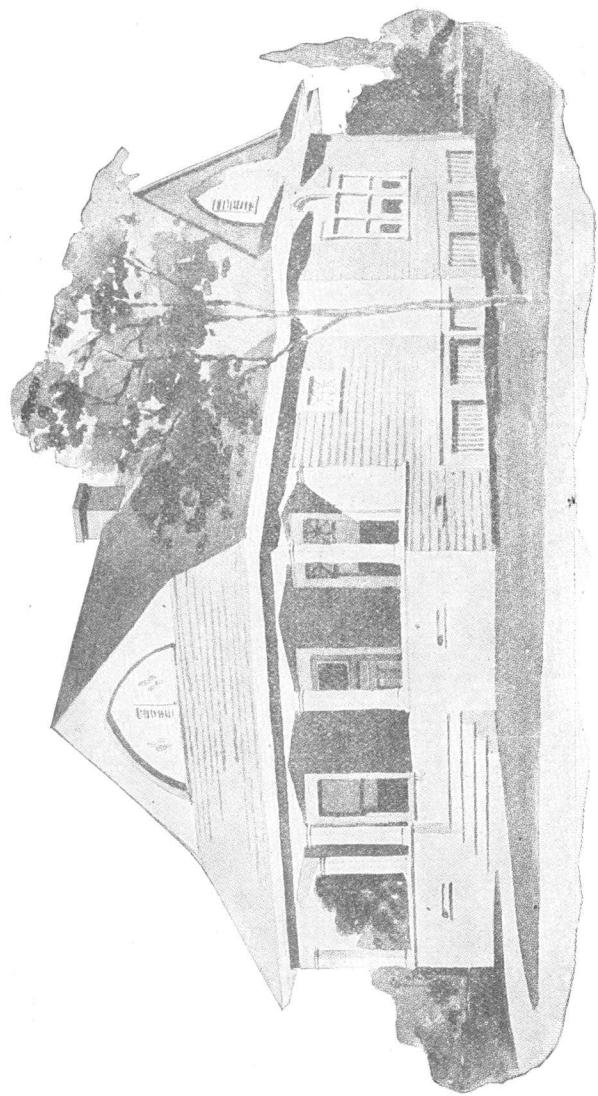
Width, 18 feet
Length, 41 feet
6 inches

STORAGE SPACE

CHAMBER
17'-0" x 10'-3"

CHAMBER
17'-0" x 12'-0"

Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete type-written specifications with each set of plans.

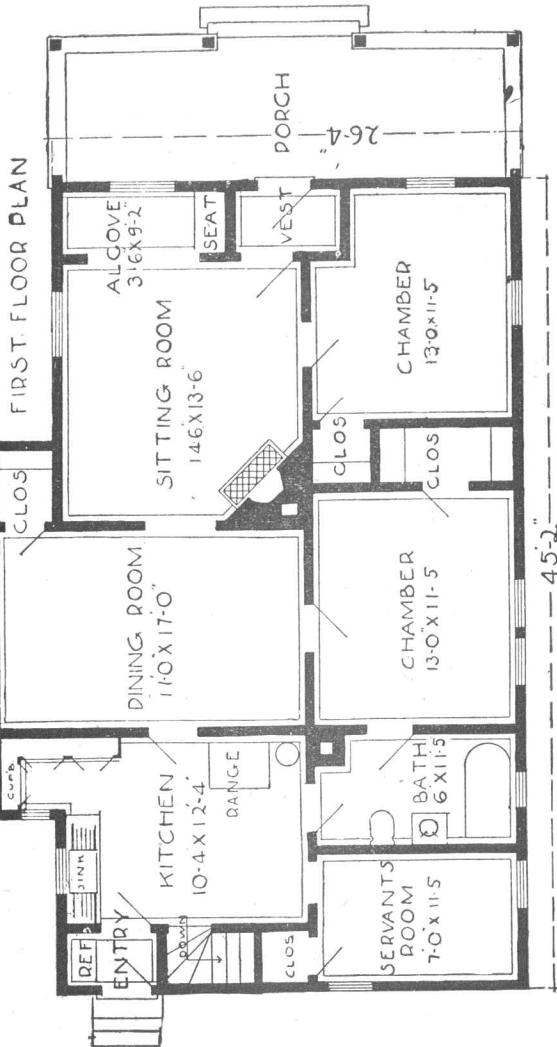


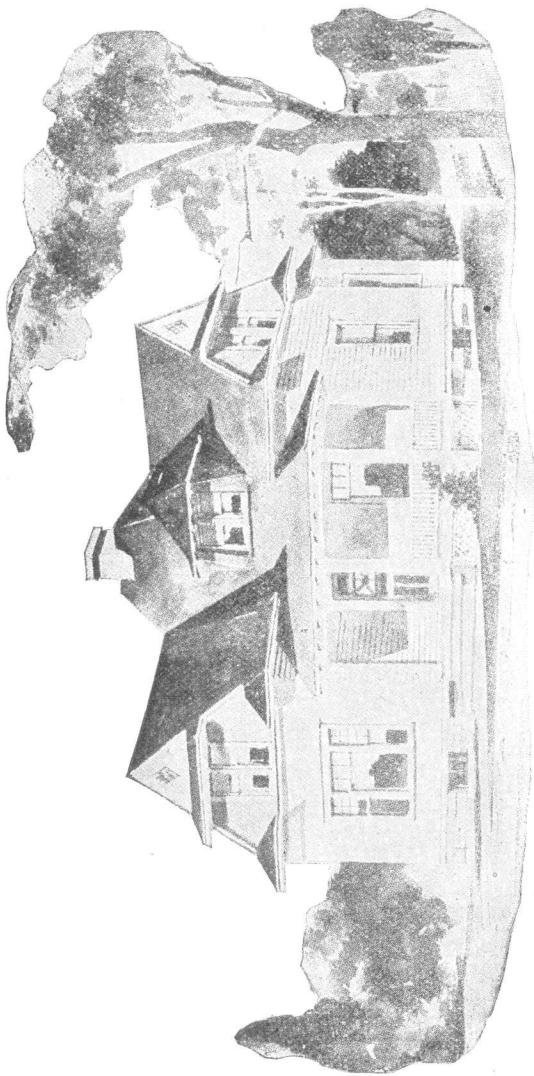
House Design No. 1511

Floor Plan of No. 1511

SIZE: Width, 30 feet; Length, 45 feet 2 inches

Blue prints consist of cellar and foundation plans; floor plan; front and side elevations.
Complete typewritten specifications with each set of plans.

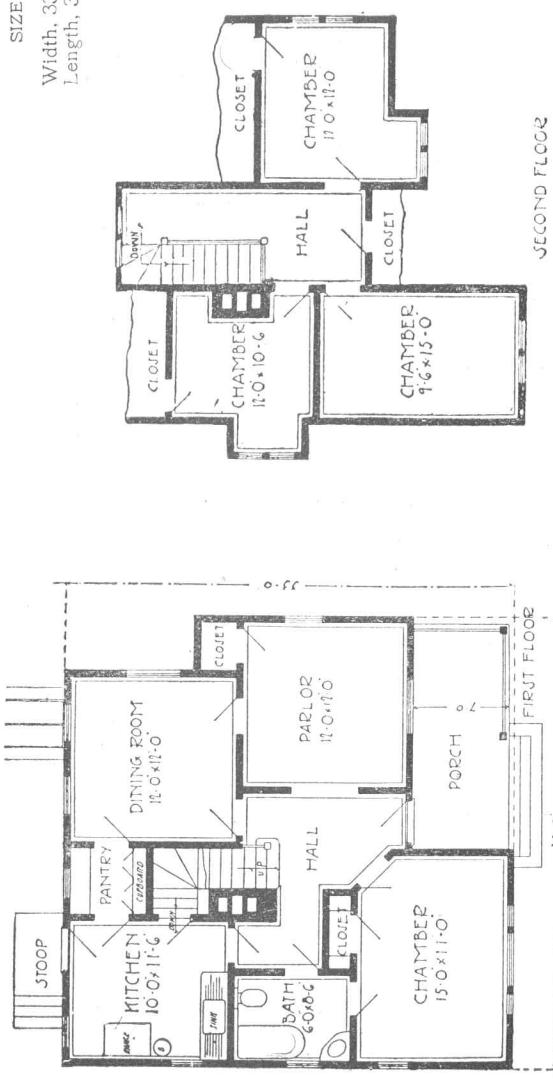




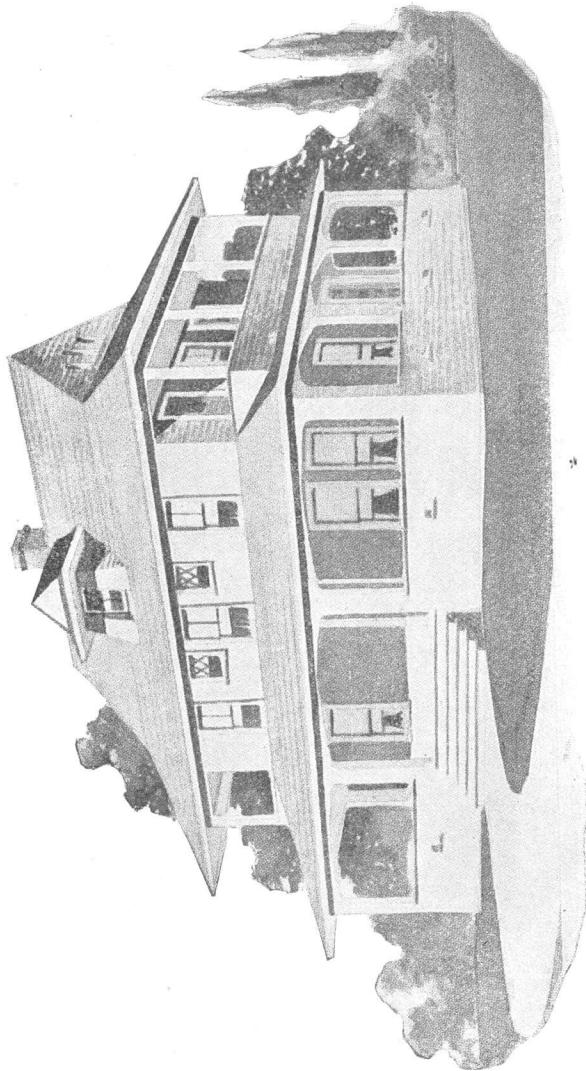
House Design No. 1512

Floor Plans of No. 1512

SIZE:
Width, 33 feet
Length, 33 feet



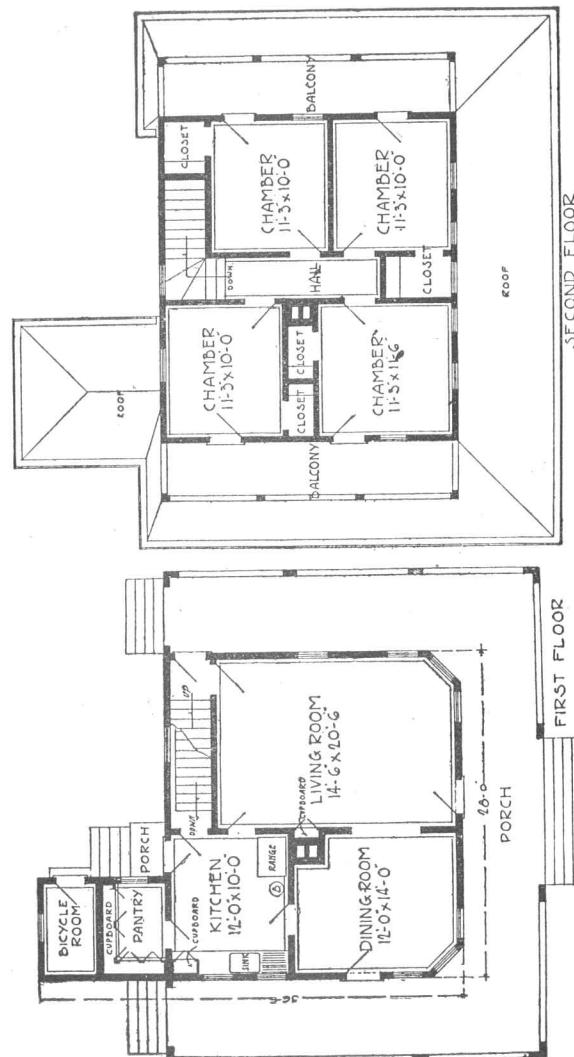
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



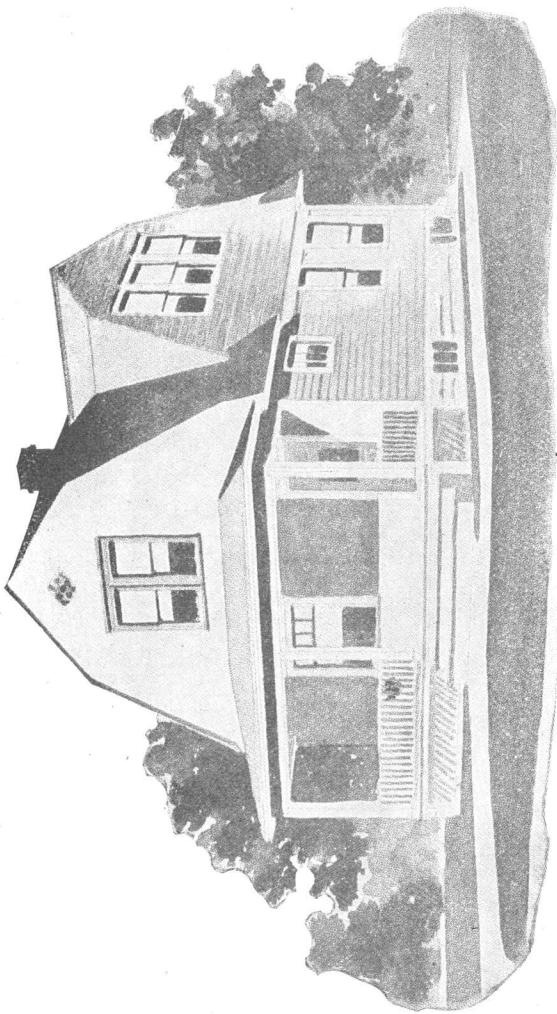
House Design No. 1513

Floor Plans of No. 1513

Width, 28 feet
Length, 36 feet 6 inches
SIZE:



Blue prints consist of cellar and foundation plans; floor plans; roof plans; front and side elevations.
Complete typewritten specifications with each set of plans.



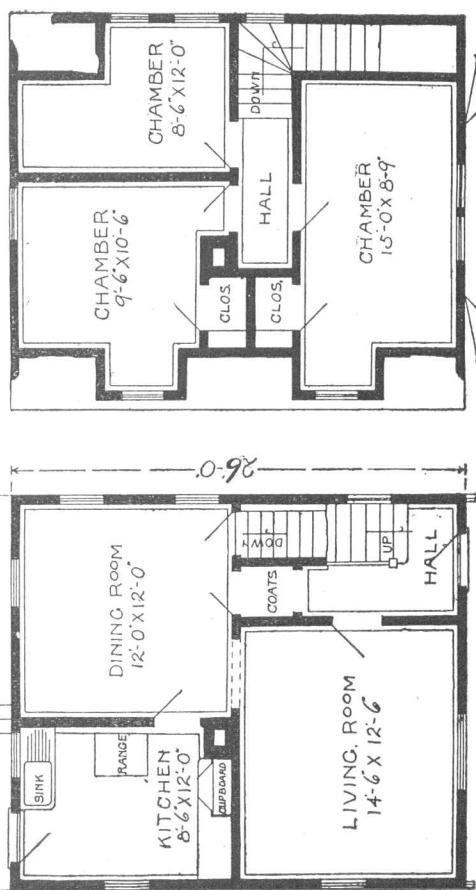
House Design No. 1514

Floor Plans of No. 1514

SIZE:

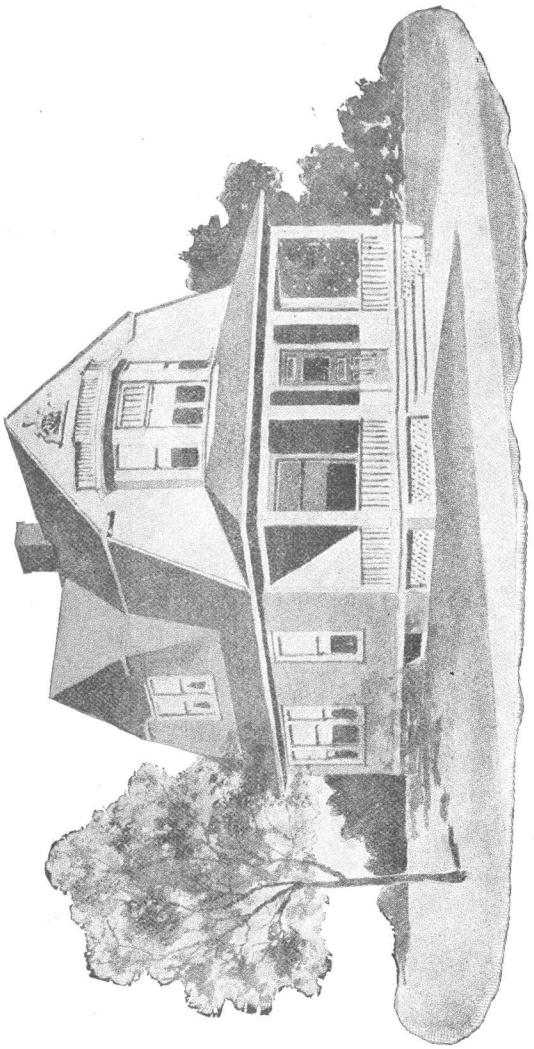
Width, 22 feet 6 inches

Length, 26 feet



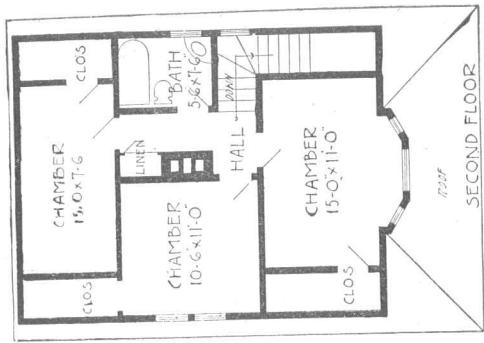
Blue prints consist
of cellar and foundation
plans; floor plans; roof
plan; front and side
elevations.

Complete typewrit-
ten specifications with
each set of plans.



House Design No. 1515

Floor Plans of No. 1515

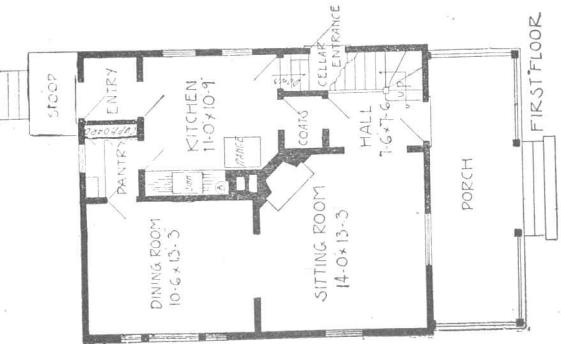


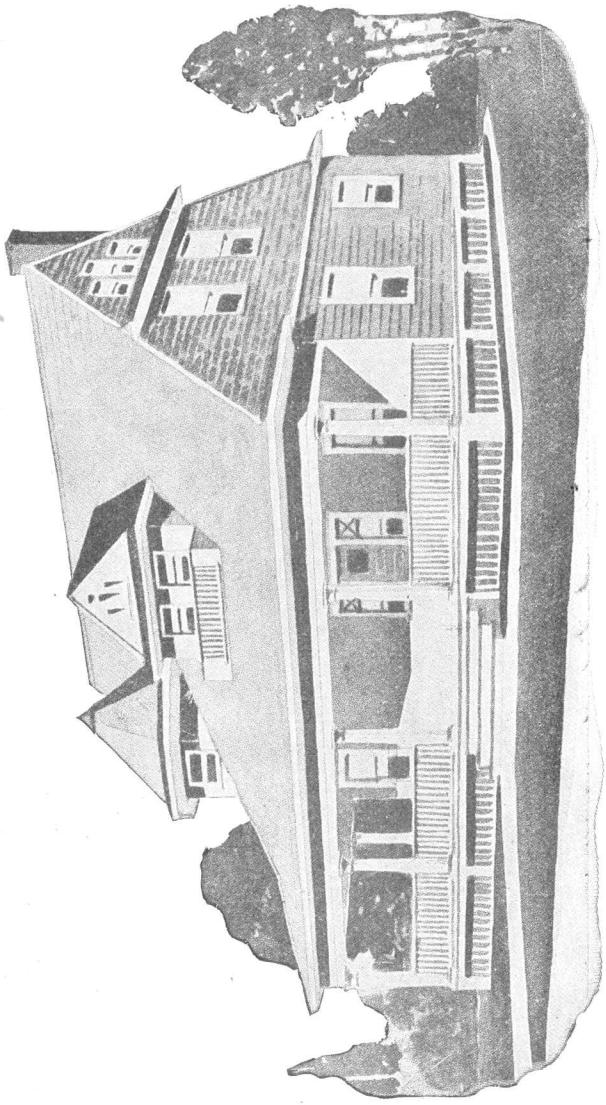
SIZE:

Width, 23 feet
Length, 28 feet

Blue prints consist of cellar and foundation plans; first and second floor plans; roof plan; front and side elevations.

Complete type-written specifications with each set of plans.

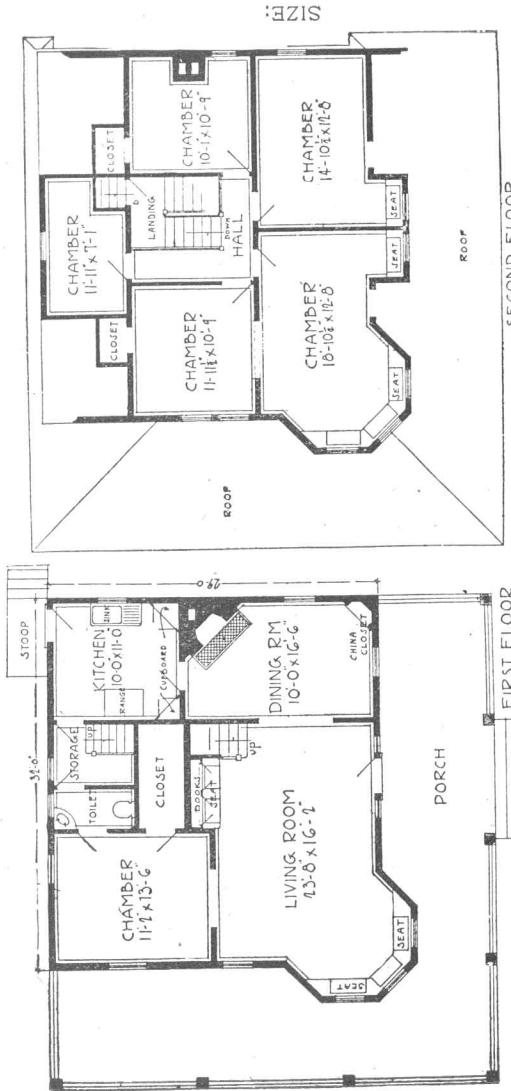




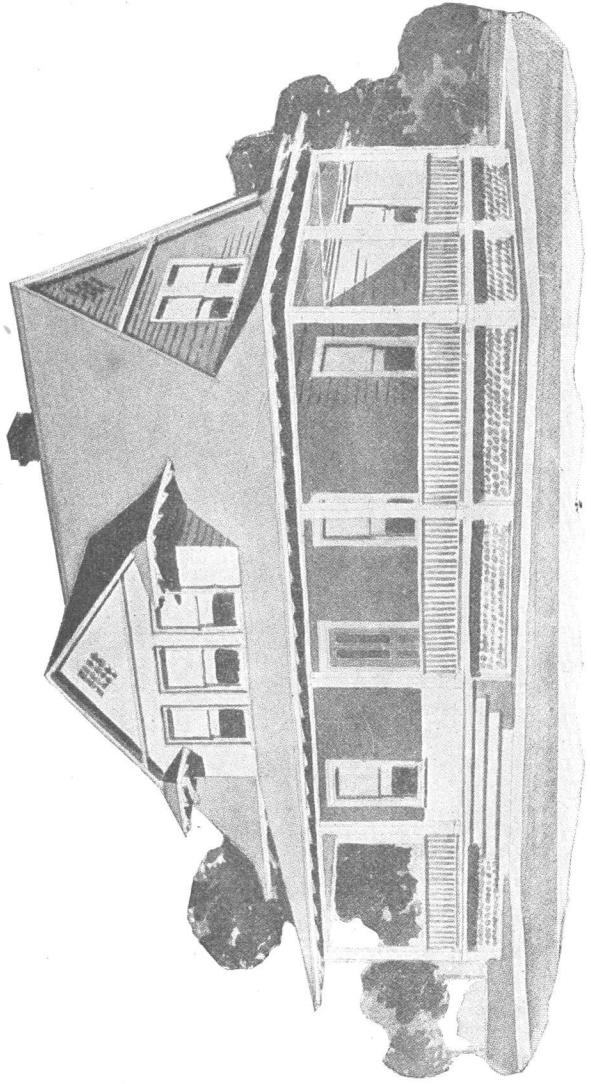
House Design No. 1516

Floor Plans of No. 1513

Width, 32 feet
Length, 29 feet

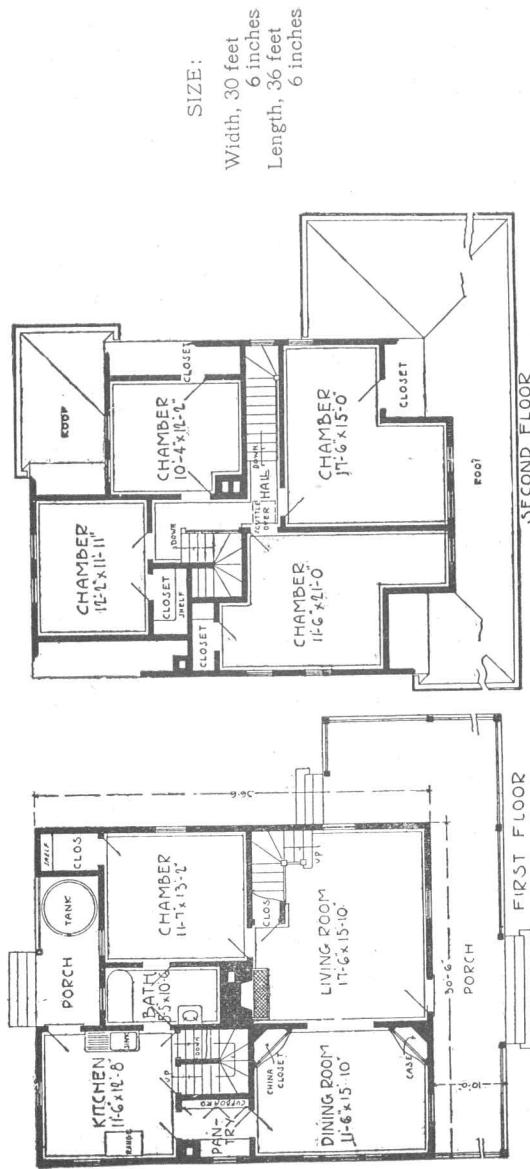


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations. Complete, rewritten specifications with each set of plans.

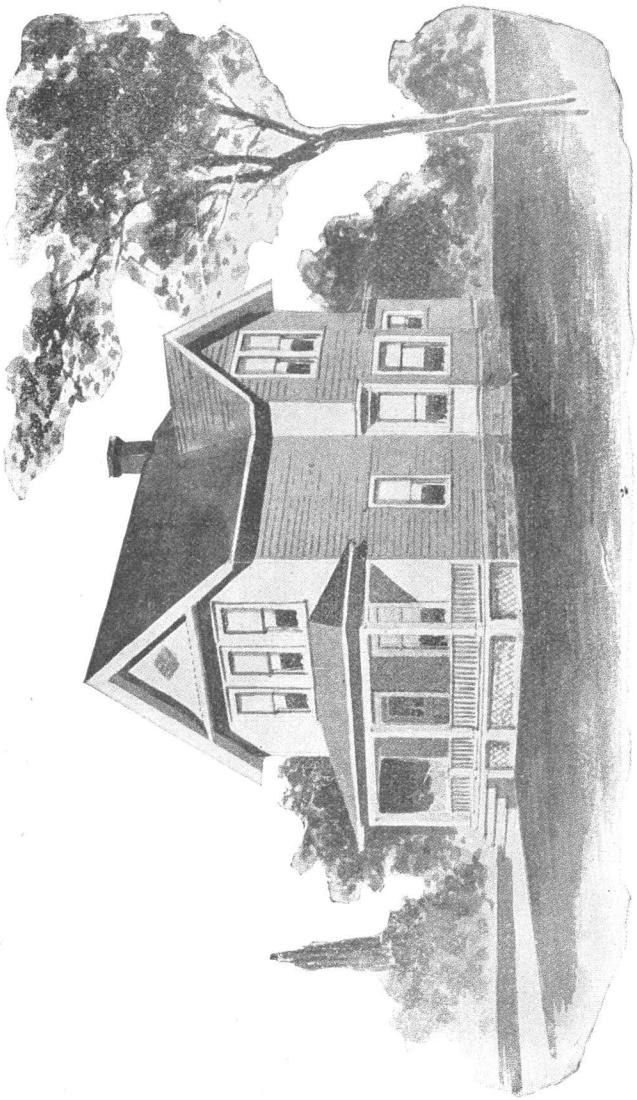


House Design No. 1517

Floor Plans of No. 1517



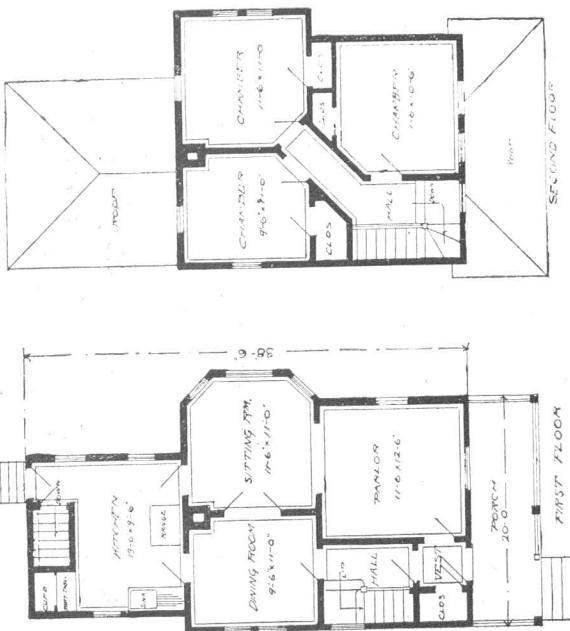
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



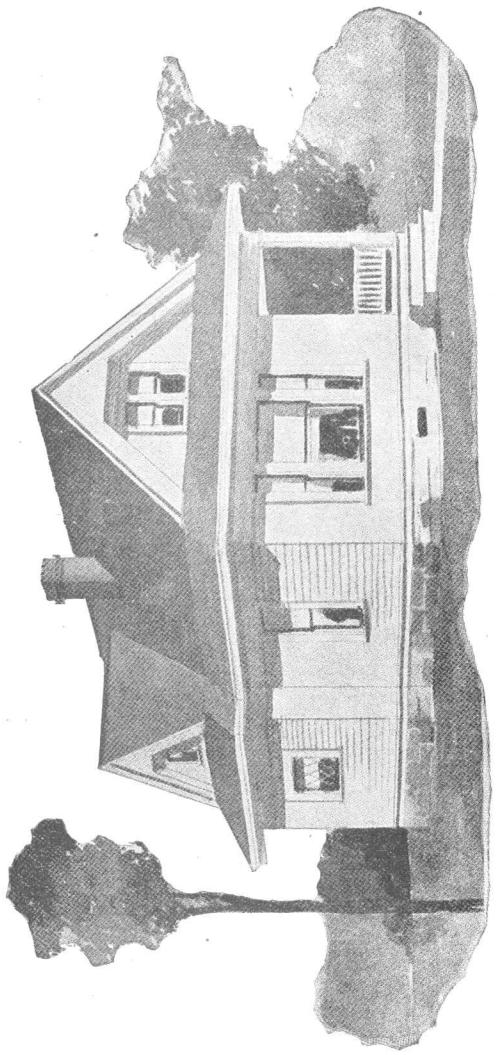
House Design No. 1518

Floor Plans of No. 1518

SIZE:
Width, 22 feet 6 inches
Length, 38 feet 6 inches

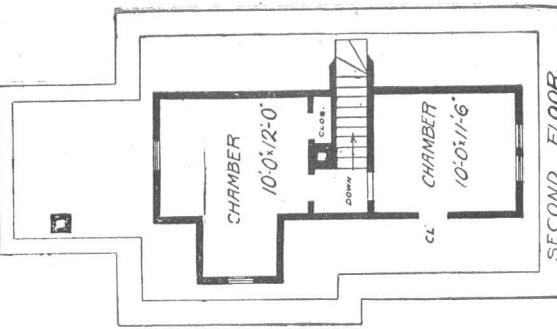


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

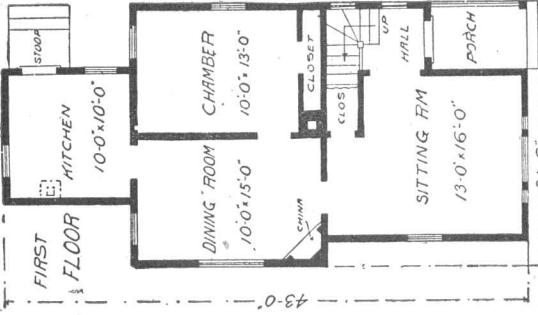


House Design No. 1519

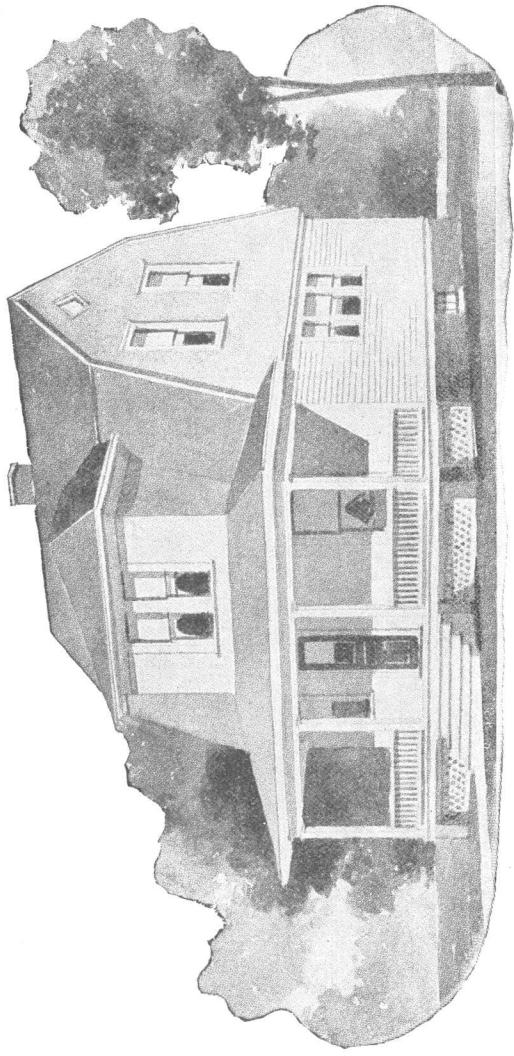
Floor Plans of No. 1519



SIZE:
Width, 21 feet 6 inches
Length, 43 feet

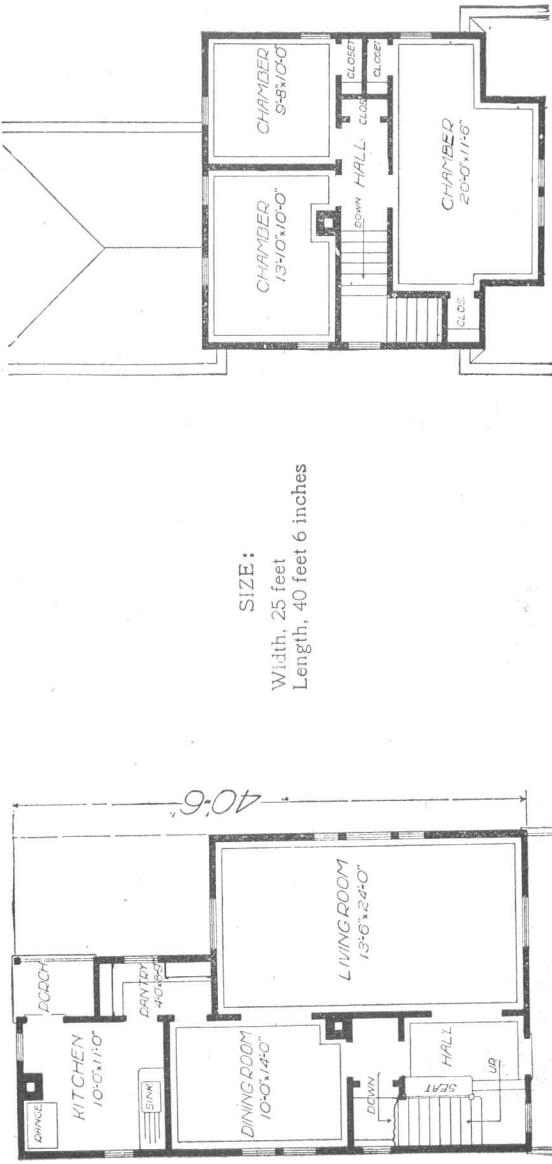


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

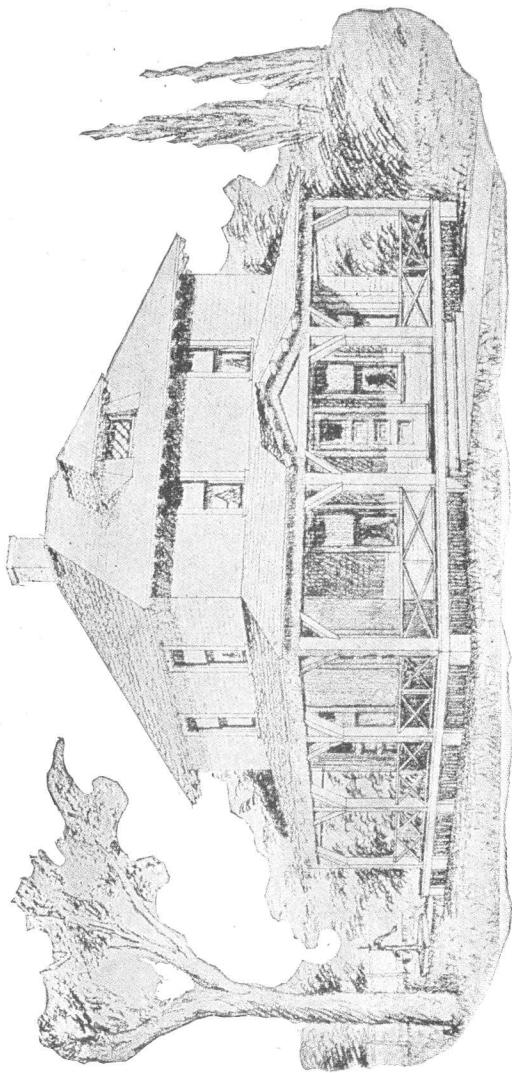


House Design No. 1520

Floor Plans of No. 1520



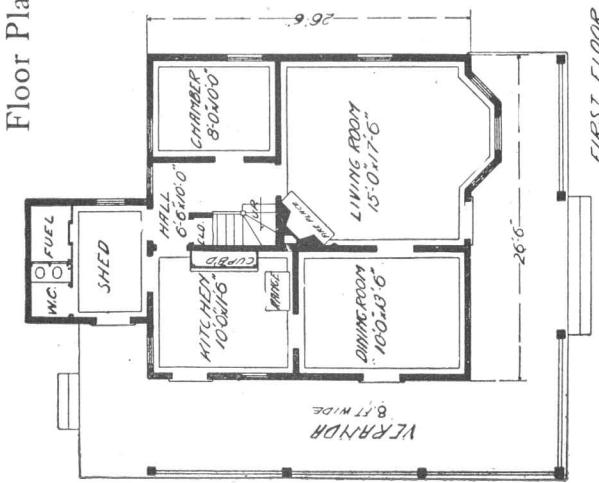
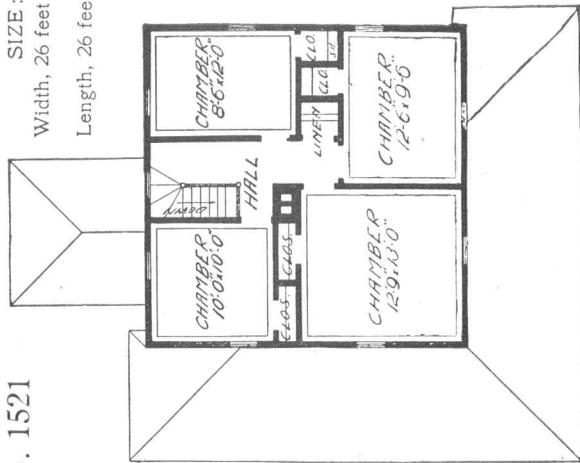
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 1521

Floor Plans of No. 1521

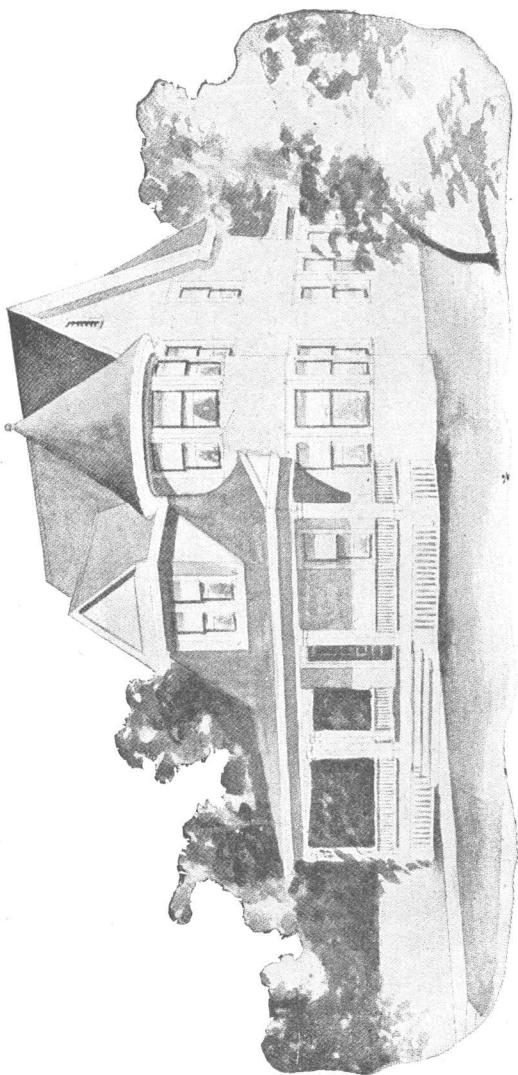
SIZE:
Width, 26 feet 6 inches
Length, 26 feet 6 inches



Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

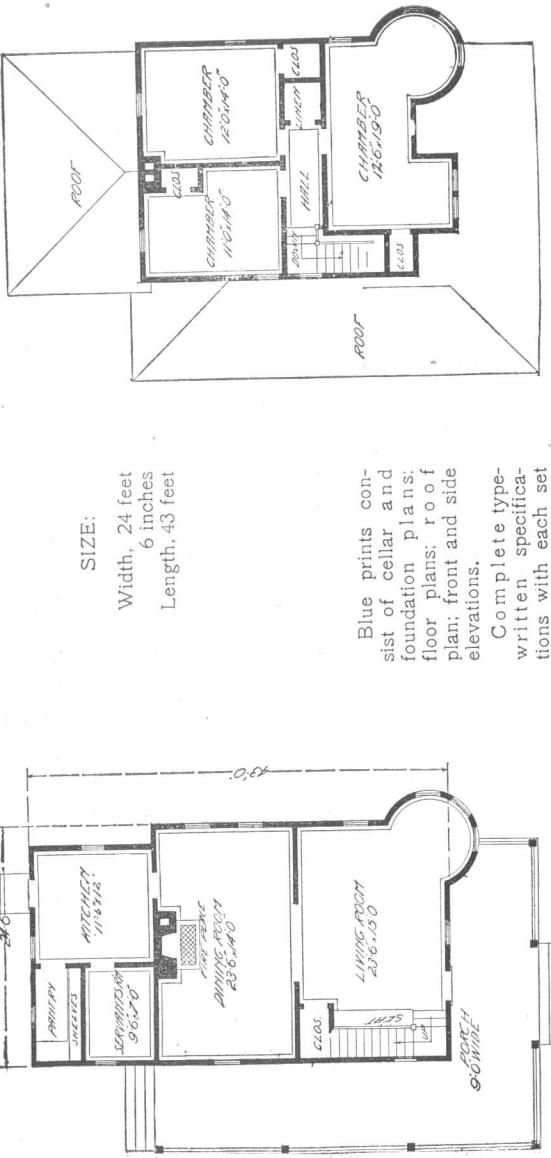
FIRST FLOOR

SECOND FLOOR



House Design No. 1522

Floor Plans of No. 1522



SIZE:

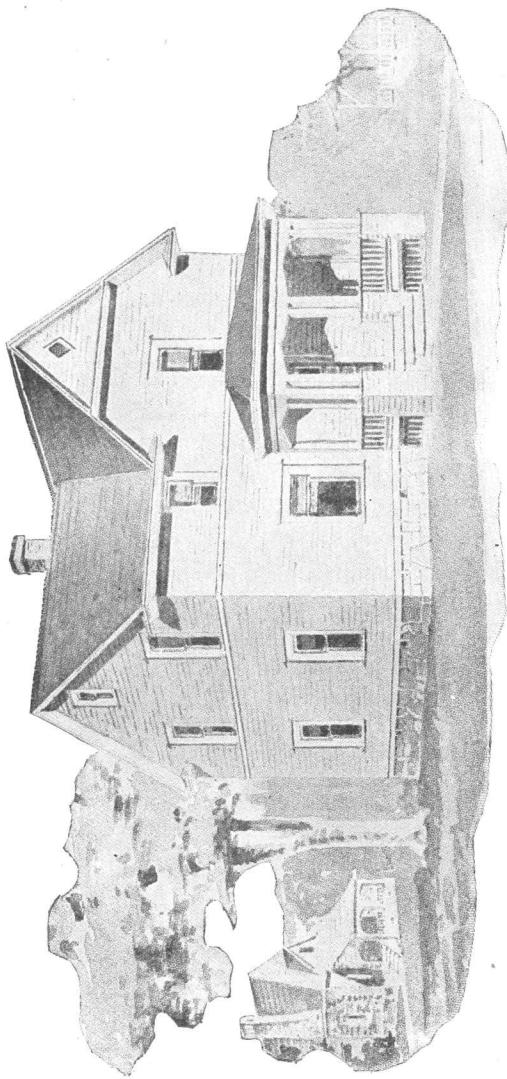
Width, 24 feet
6 inches
Length, 43 feet

Blue prints consist of cellar and foundation plans; roof plans; front and side elevations.

Complete type-written specifications with each set of plans.

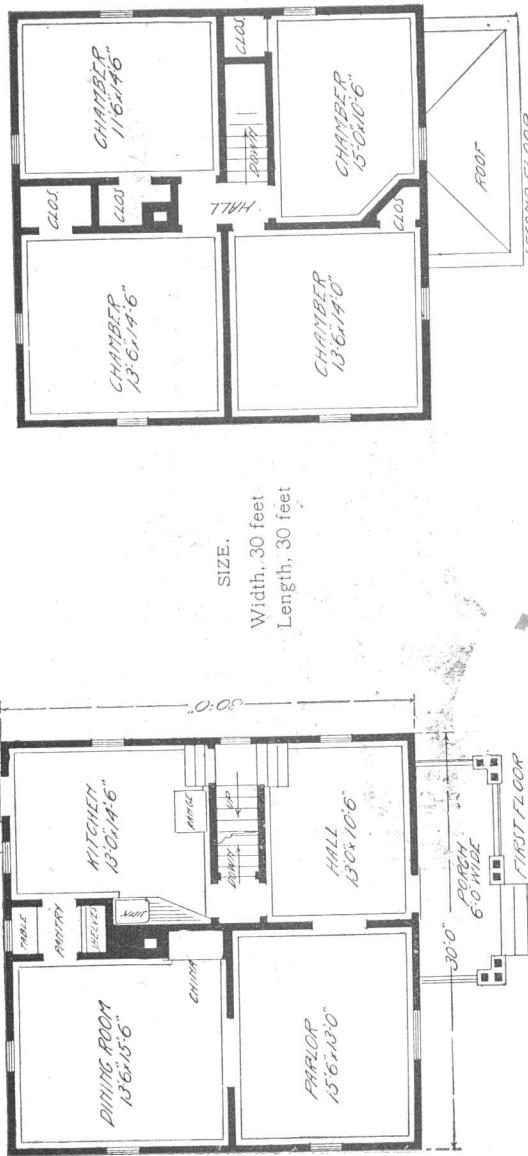
SECOND FLOOR

FIRST FLOOR

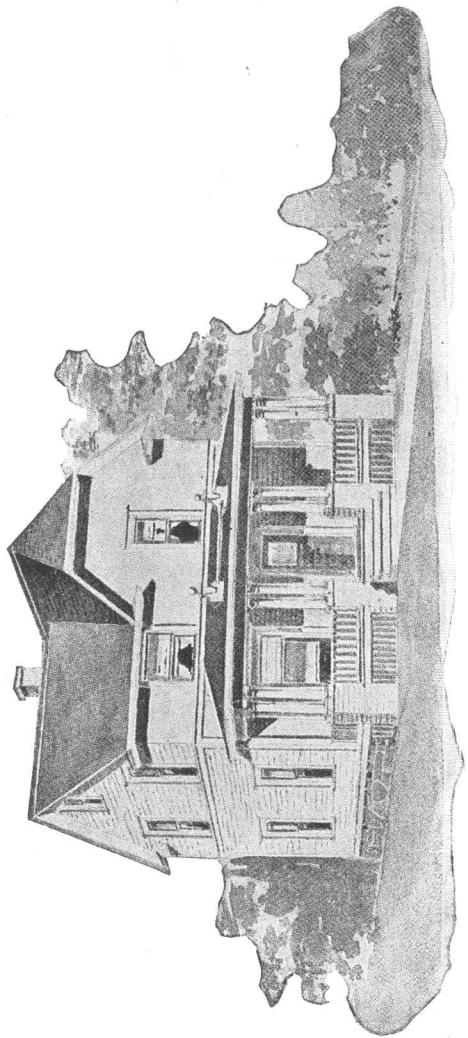


House Design No. 1523

Floor Plans of No. 1523

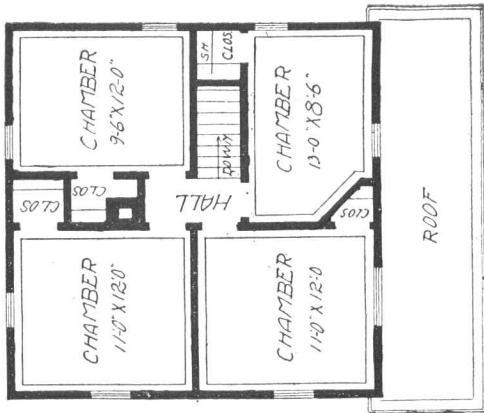


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

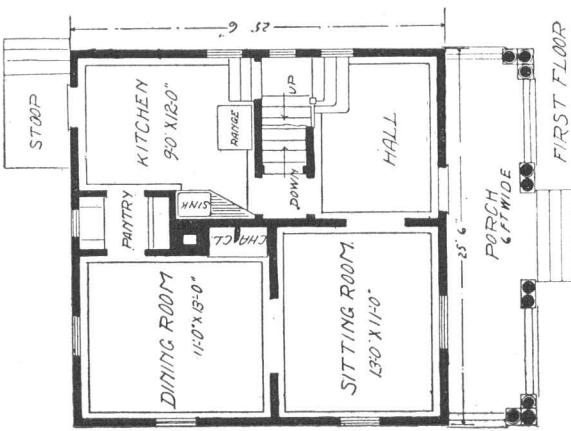


House Design No. 1524

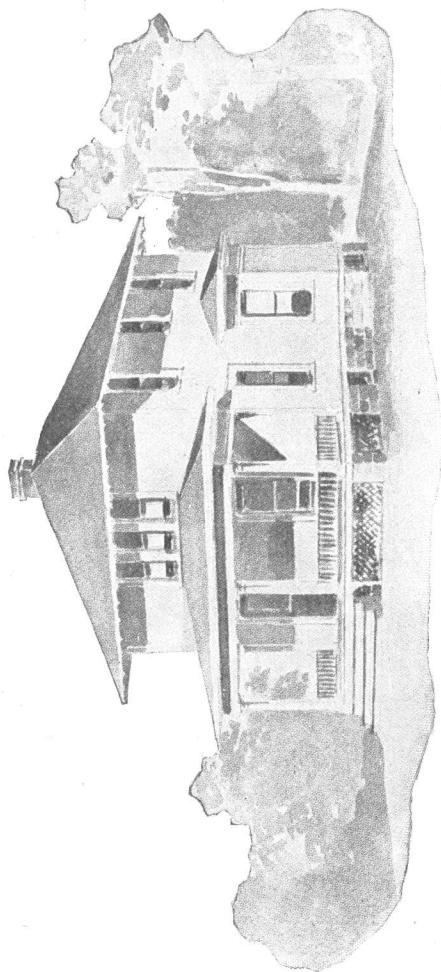
Floor Plans of No. 1524



SIZE:
Width, 25 feet
Length, 25 feet

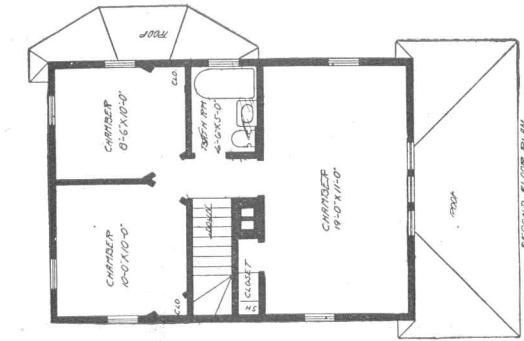


F/R/S/T FLOOR
SECOND FLOOR
Blue prints consist of cellar and foundation plans; roof plan; floor plans; front and side elevations.
Complete typewritten specifications with each set of plans.

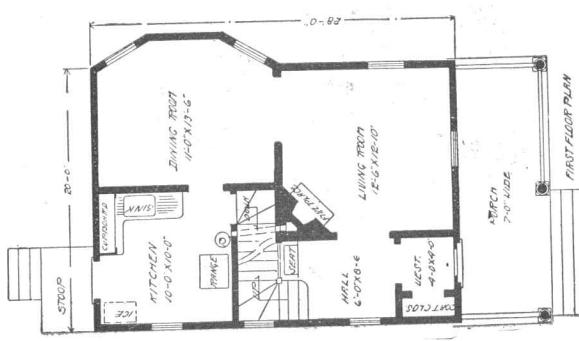


House Design No. 1525

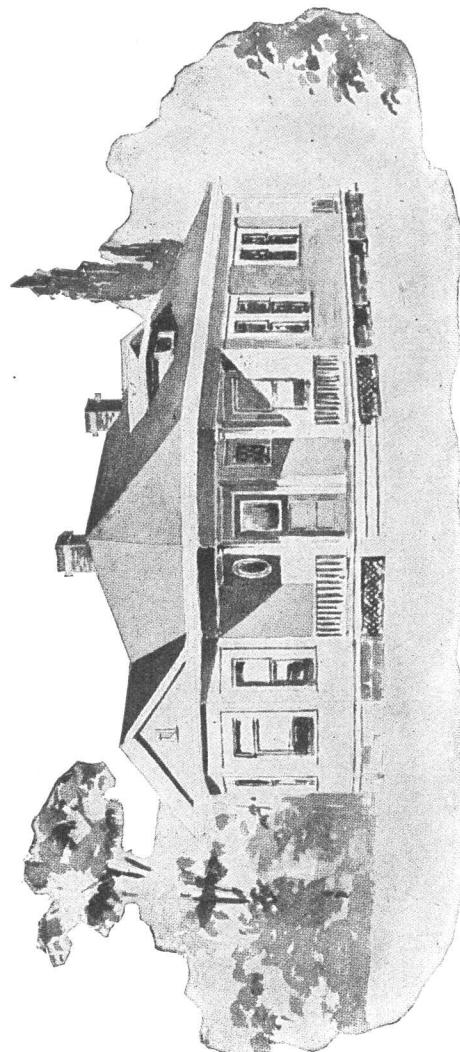
Floor Plans of No. 1525



SIZE:
Width, 20 feet
Length, 28 feet

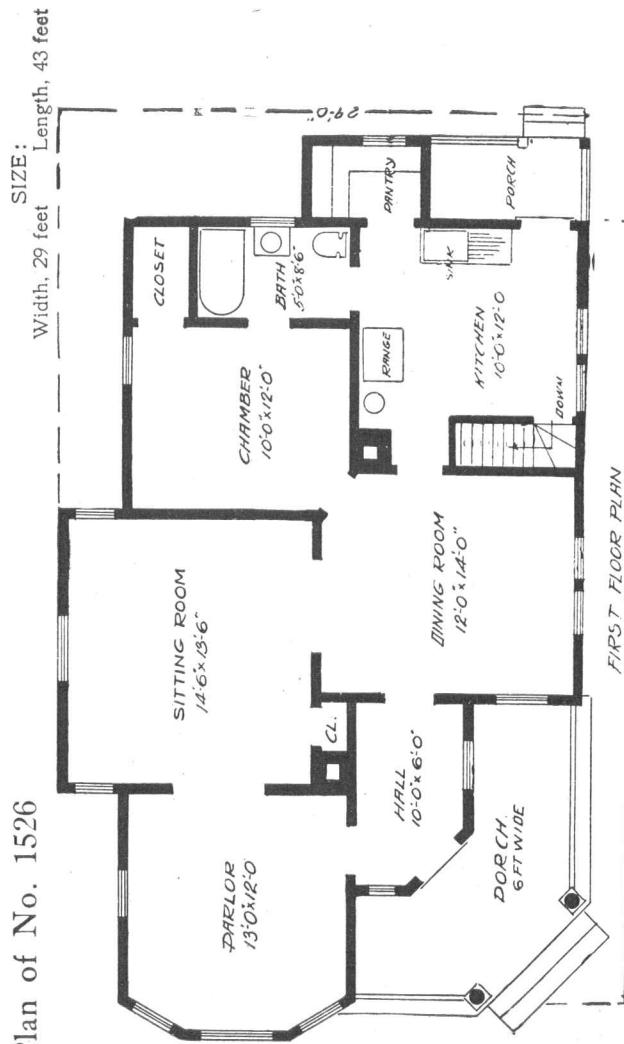


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

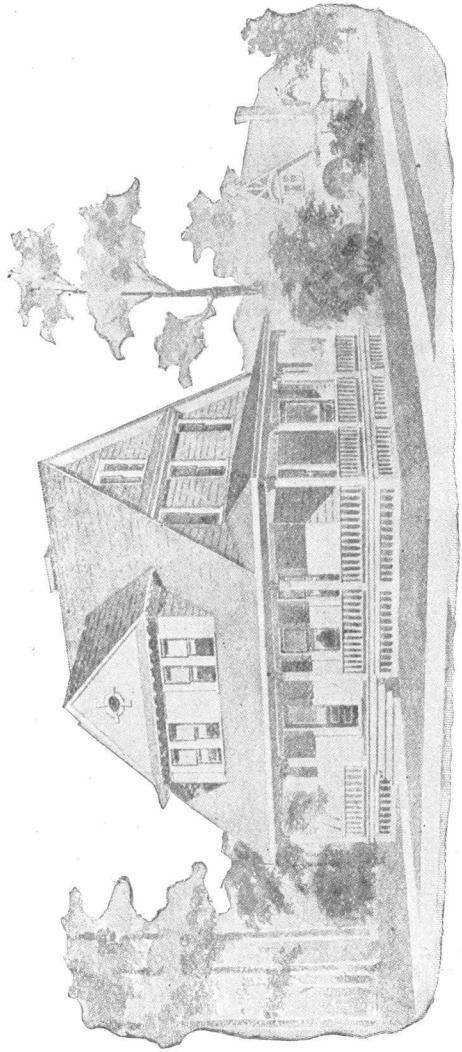


House Design No. 1526

Floor Plan of No. 1526



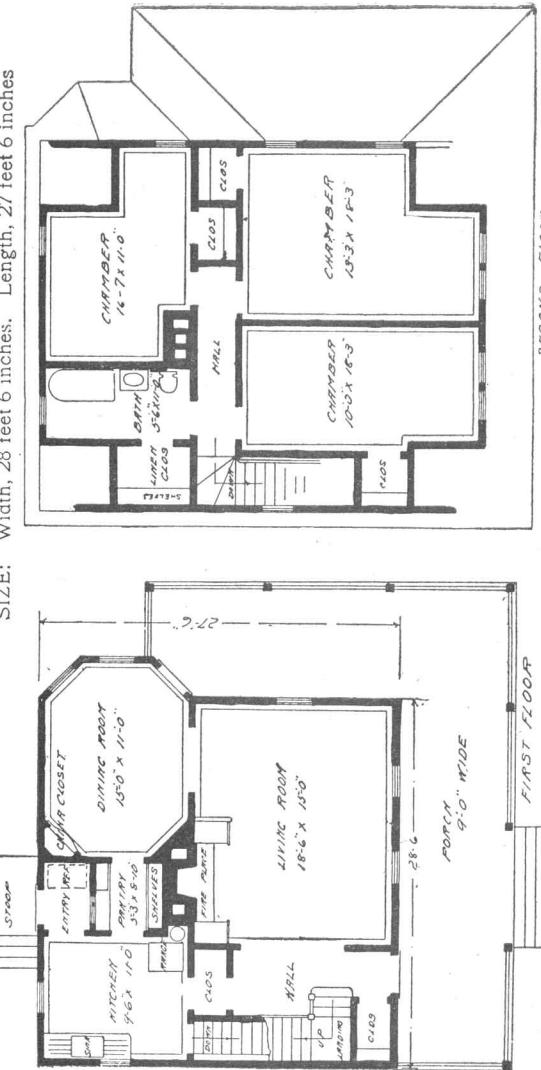
Blue prints consist of cellar and foundation plans; floor plan; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



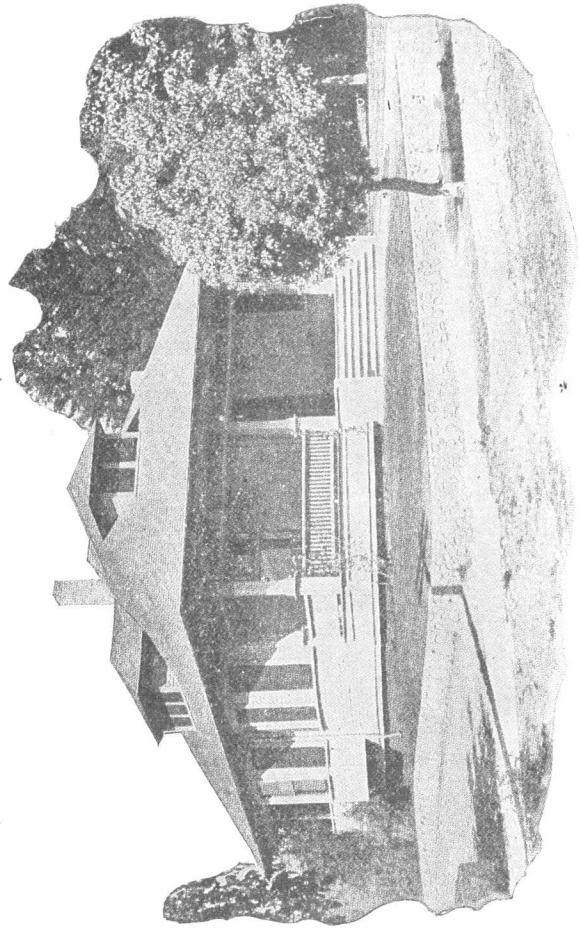
House Design No. 2116

Floor Plans of No. 2116

SIZE: Width, 28 feet 6 inches. Length, 27 feet 6 inches

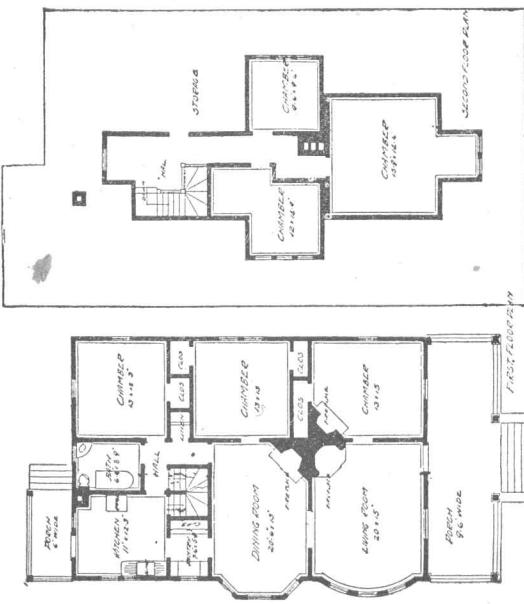


Blue prints consist of floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



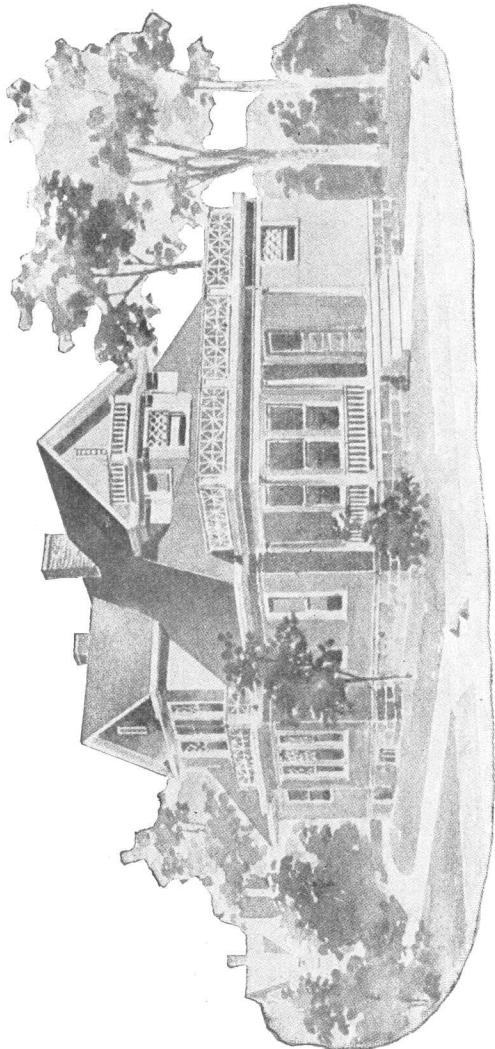
House Design No. 2117

Floor Plans of No. 2117



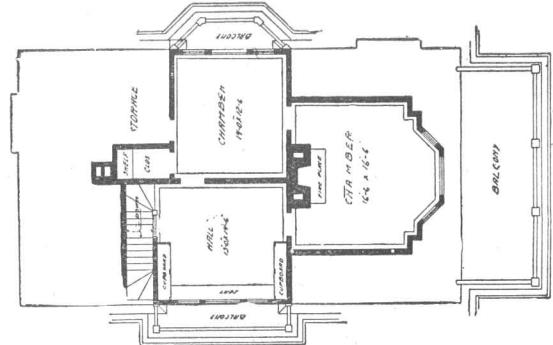
SIZE:
Width, 32 feet 6 inches
Length, 48 feet

Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



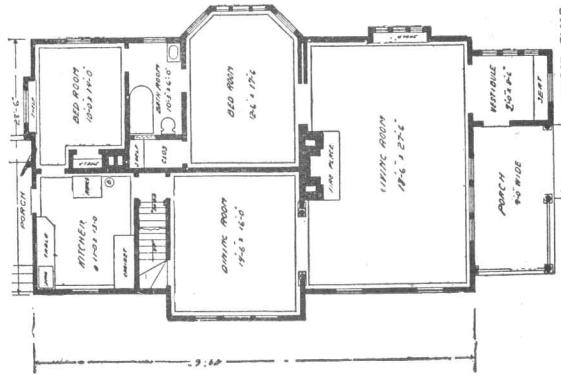
House Design No. 2118

Floor Plans of No. 2118

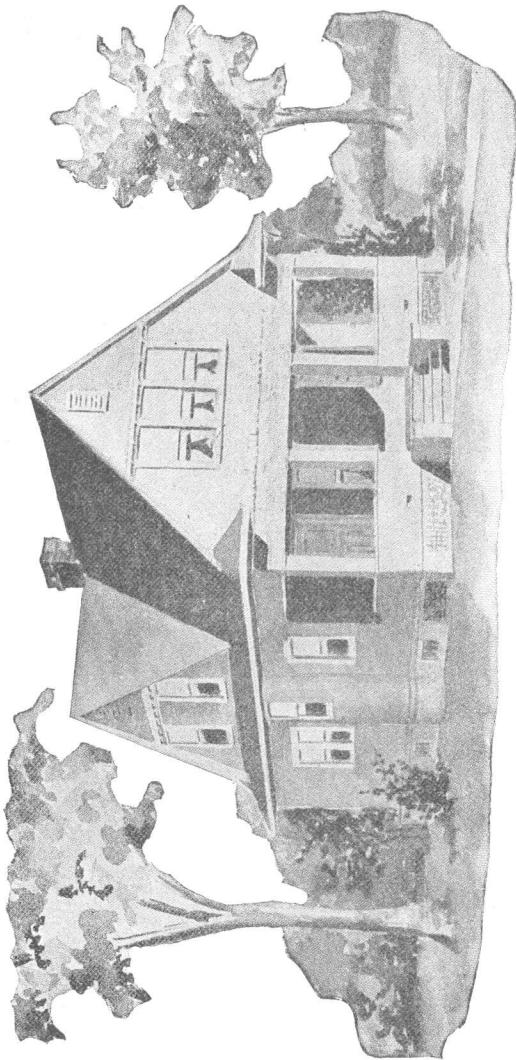


SIZE:

Width, 28 feet 6 inches
Length, 49 feet 6 inches

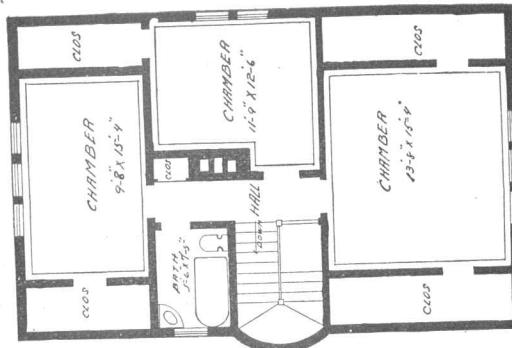


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



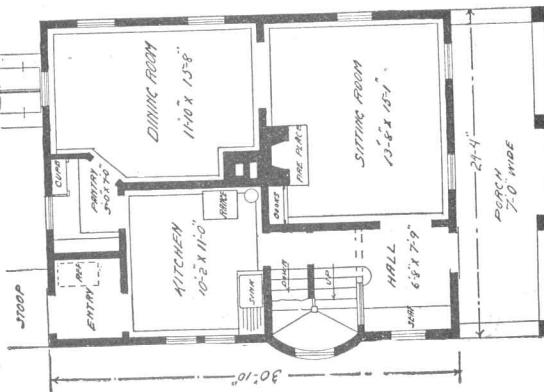
House Design No. 2119

Floor Plans of No. 2119

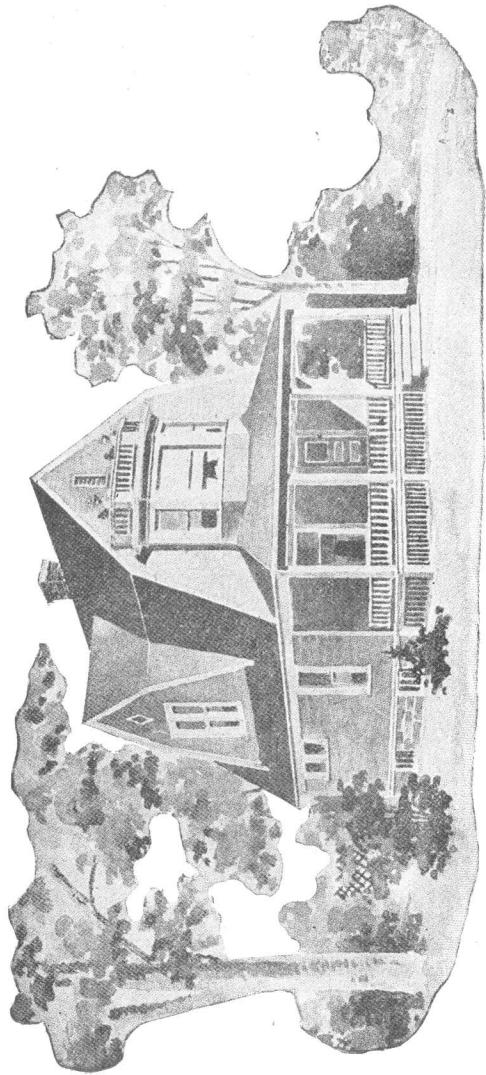


SIZE:

Width, 24 feet 4 inches
Length, 30 feet 10 inches

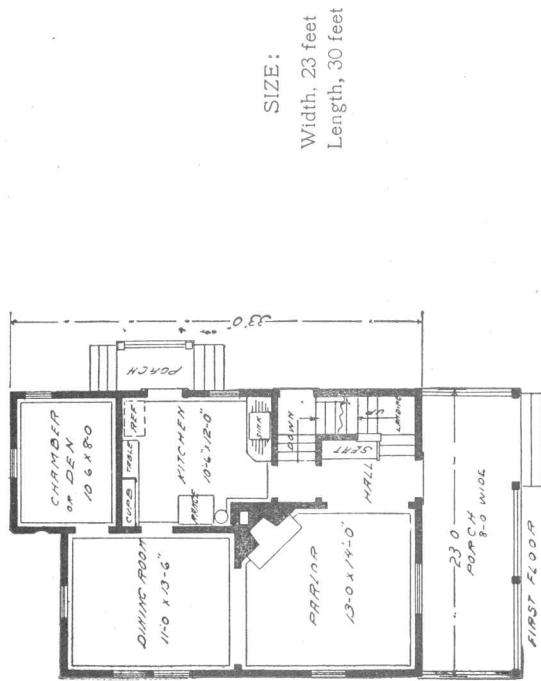
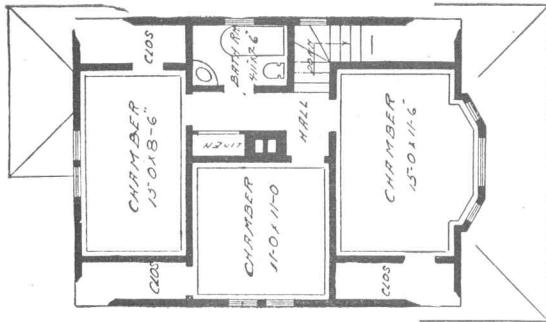


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



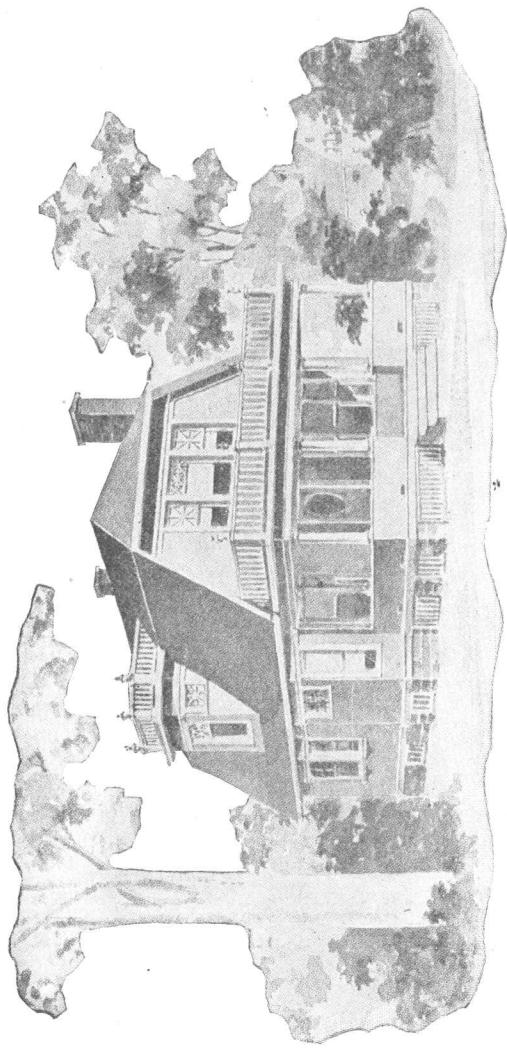
House Design No. 2120

Floor Plans of No. 2120



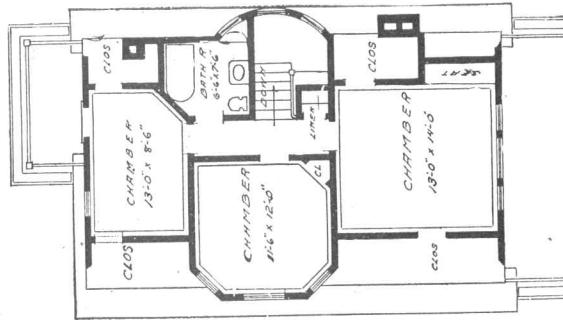
SECOND FLOOR PLAN

Blue prints consist of cellar and foundation plans; floor plans; front and side elevations.
Complete typewritten specifications with each set of plans.



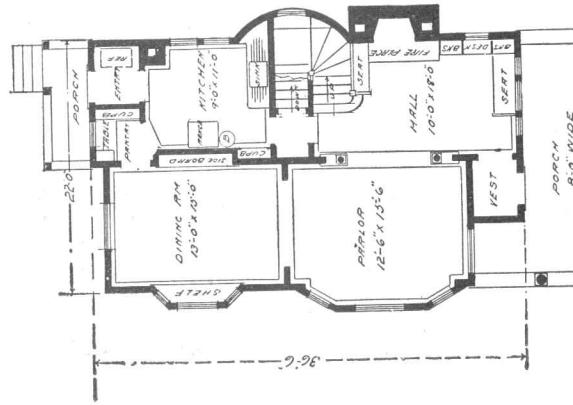
House Design No. 2121

Floor Plans of No. 2121



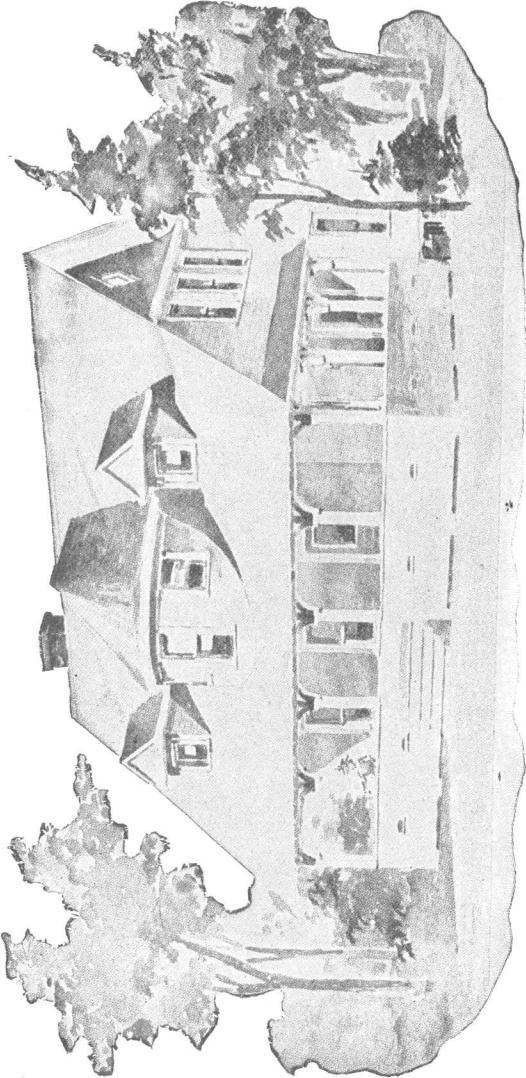
SIZE :

Width, 22 feet
Length, 36 feet 6 inches



Blue prints consist of cellar and foundation plans; roof plan; floor plans; front and side elevations.

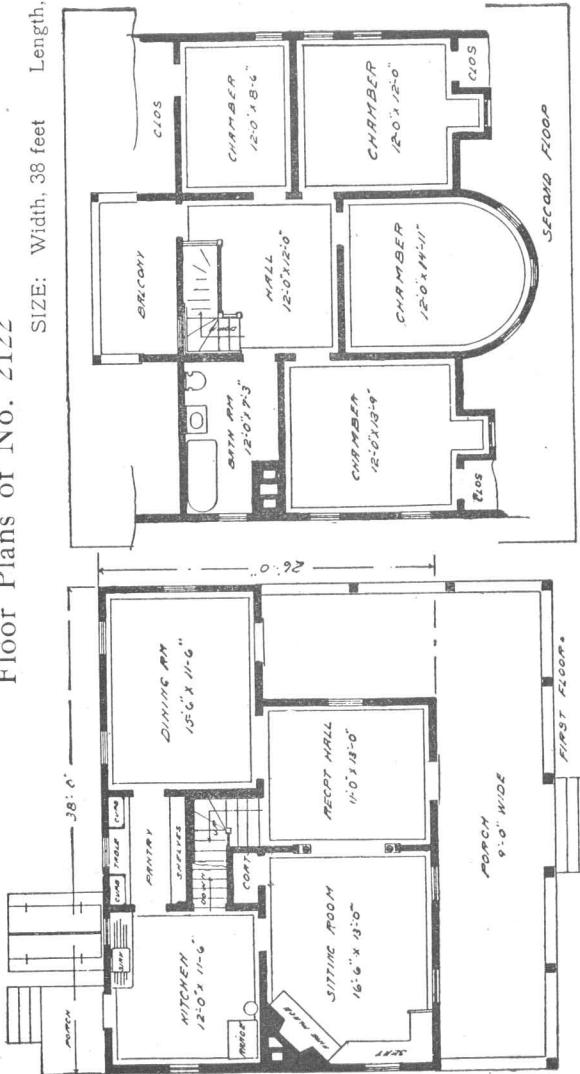
Complete typewritten specifications with each set of plans.



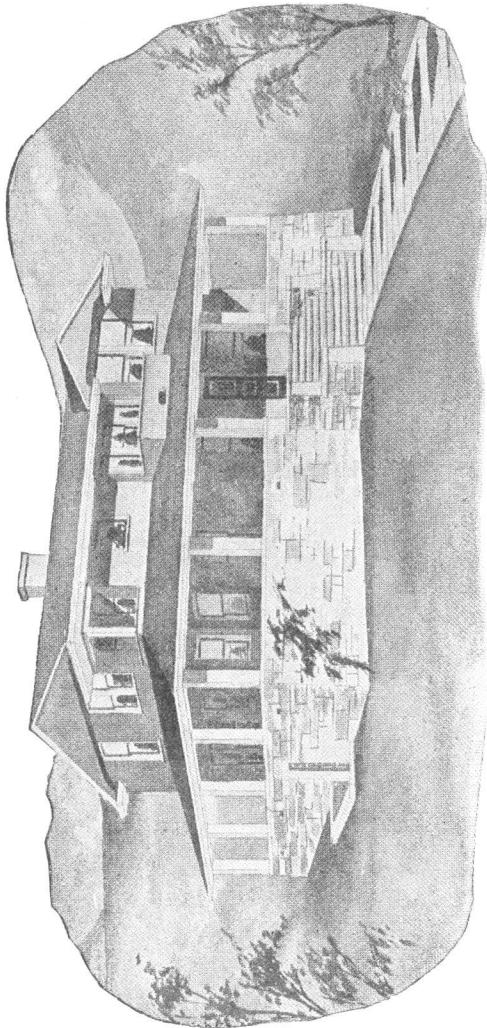
House Design No. 2122

Floor Plans of No. 2122

SIZE: Width, 38 feet Length, 26 feet

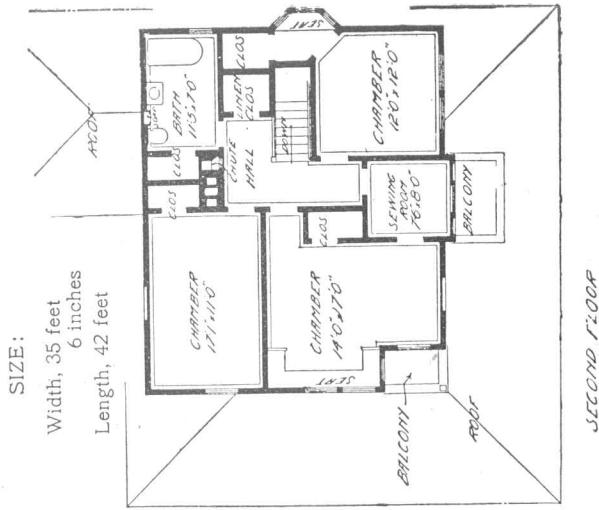


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

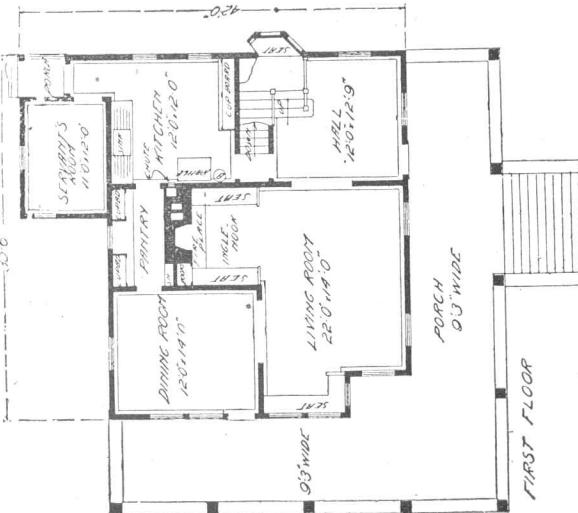


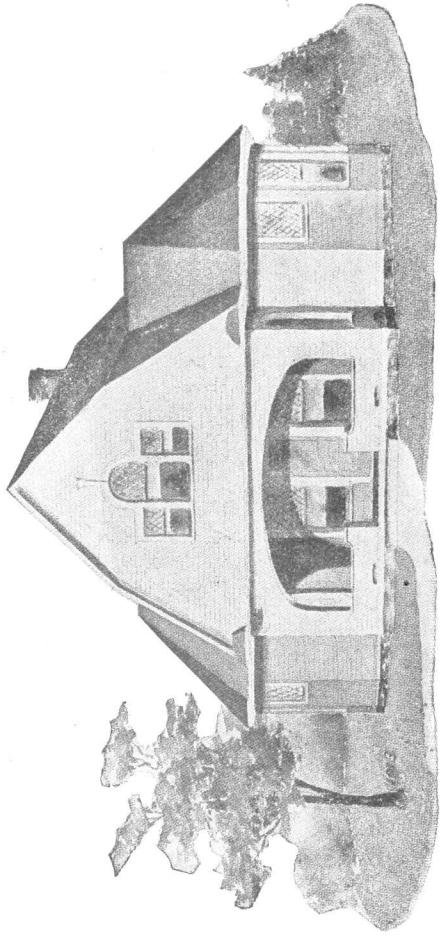
House Design No. 2123

Floor Plans of No. 2123



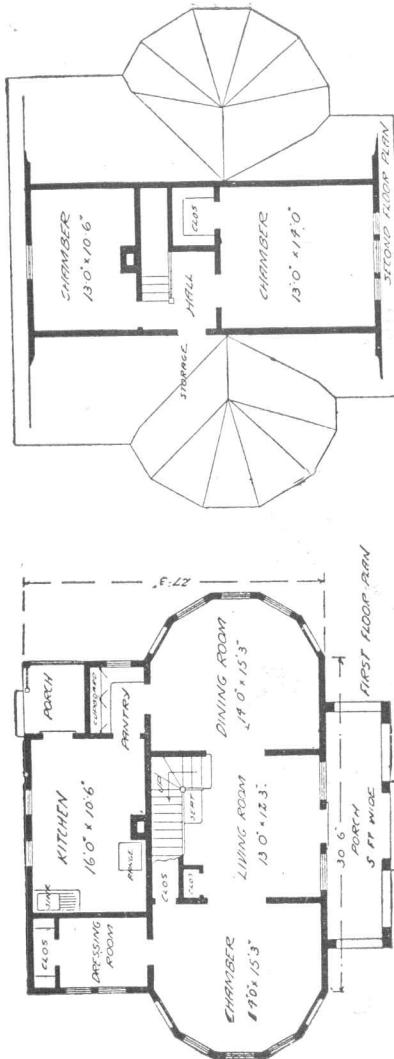
Complete typewritten specifications with each set of plans.
Plans: front and side elevations.
Blue prints consist of cellar and foundation plans; floor





House Design No. 2124

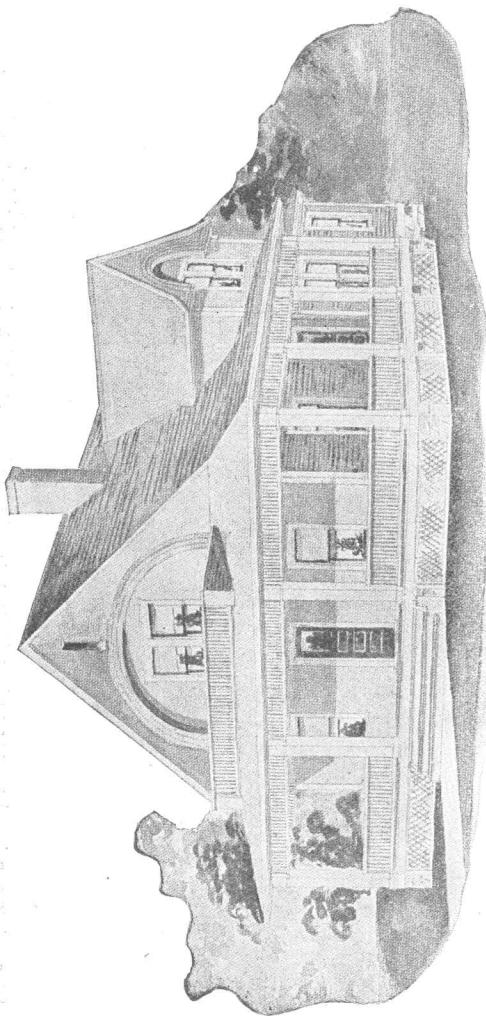
Floor Plans of No. 2124



SIZE:

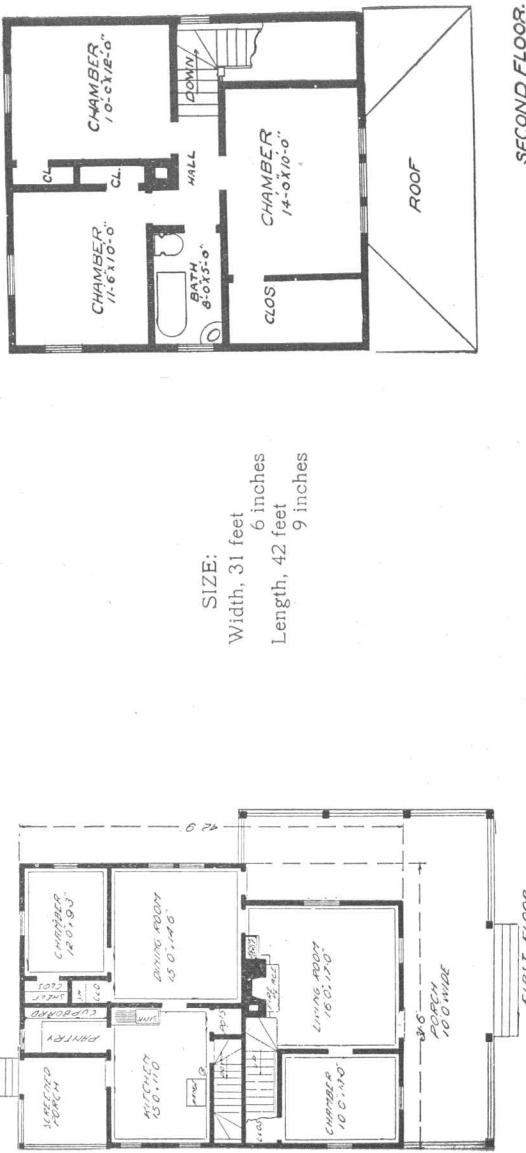
Width, 30 feet 6 inches
Length, 27 feet 3 inches

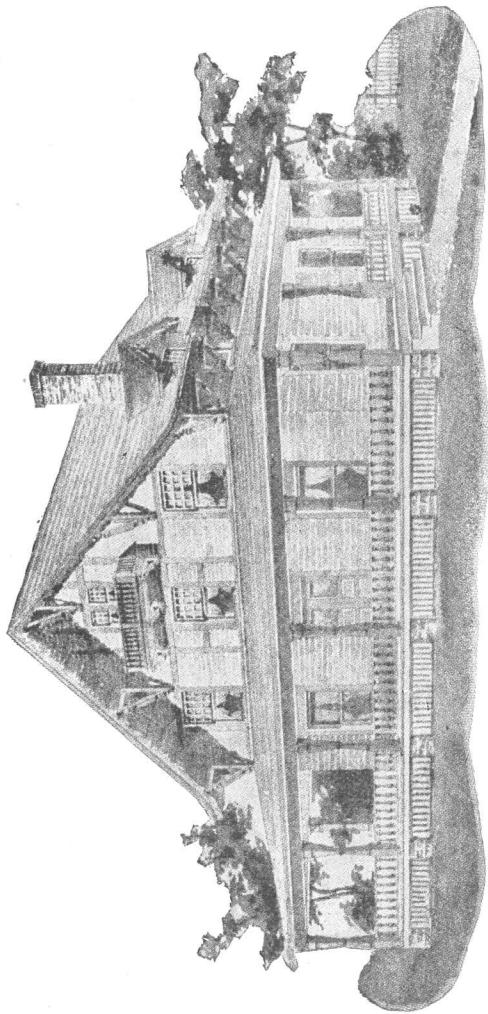
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 2125

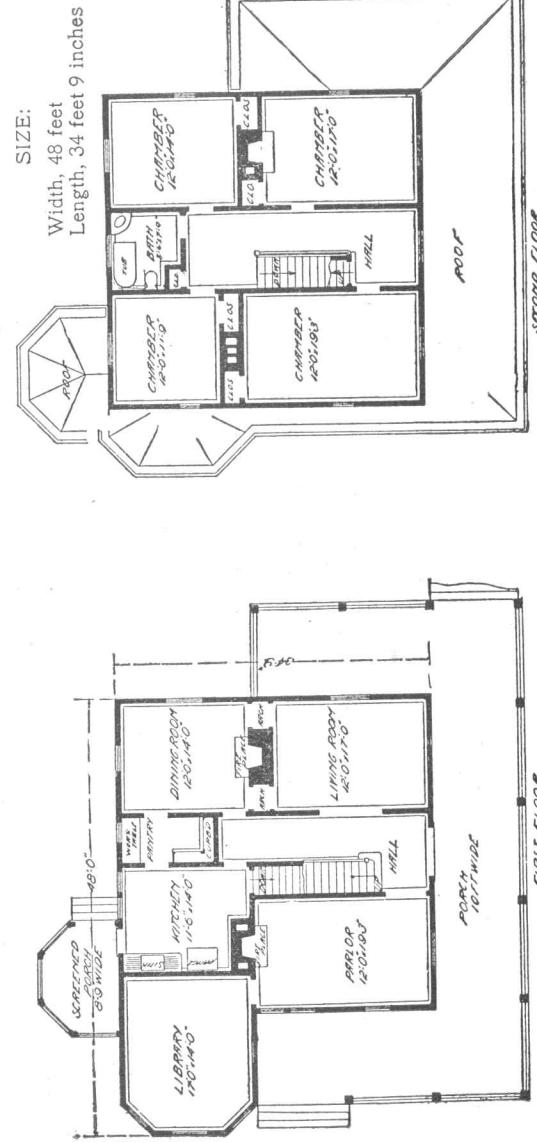
Floor Plans of No. 2125



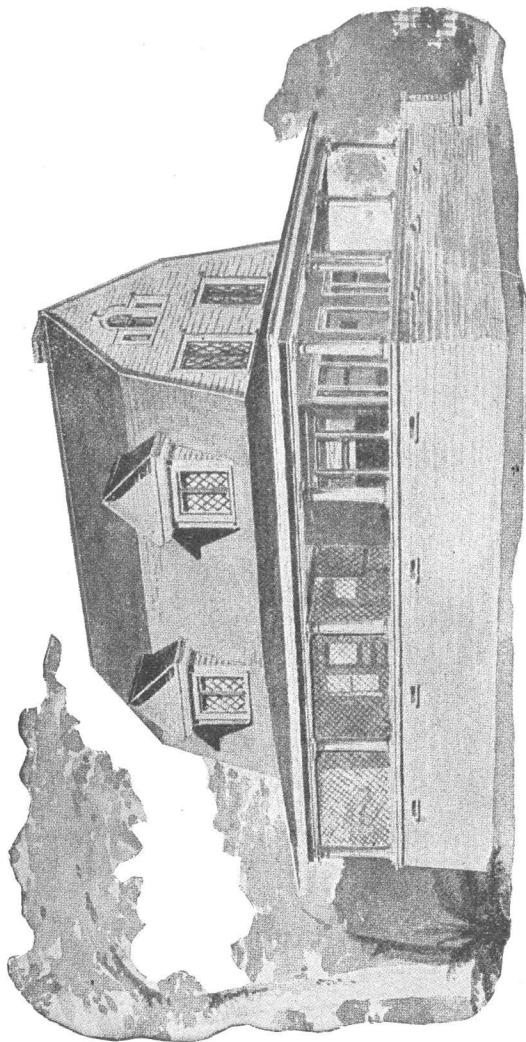


House Design No. 2126

Floor Plans of No. 2126

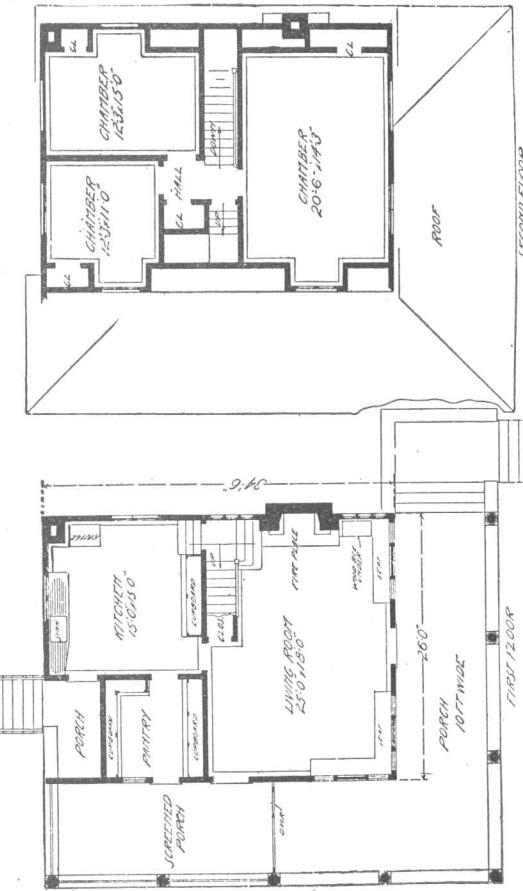


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 2127

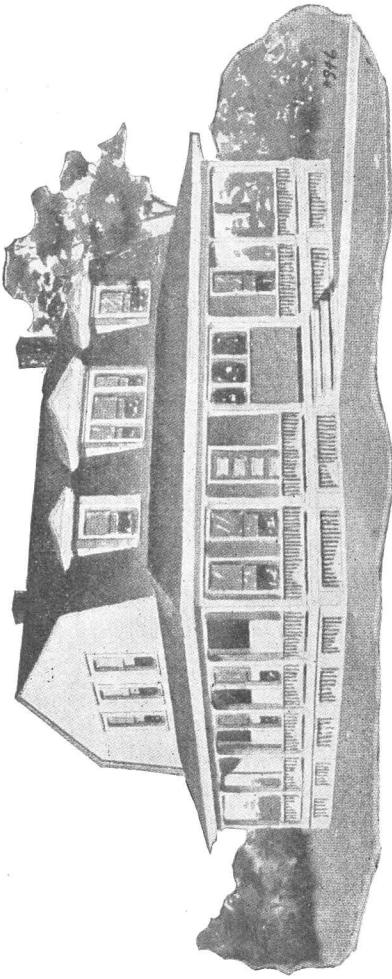
Floor Plans of No. 2127



SIZE:
Width, 26 feet
Length, 34 feet
6 inches

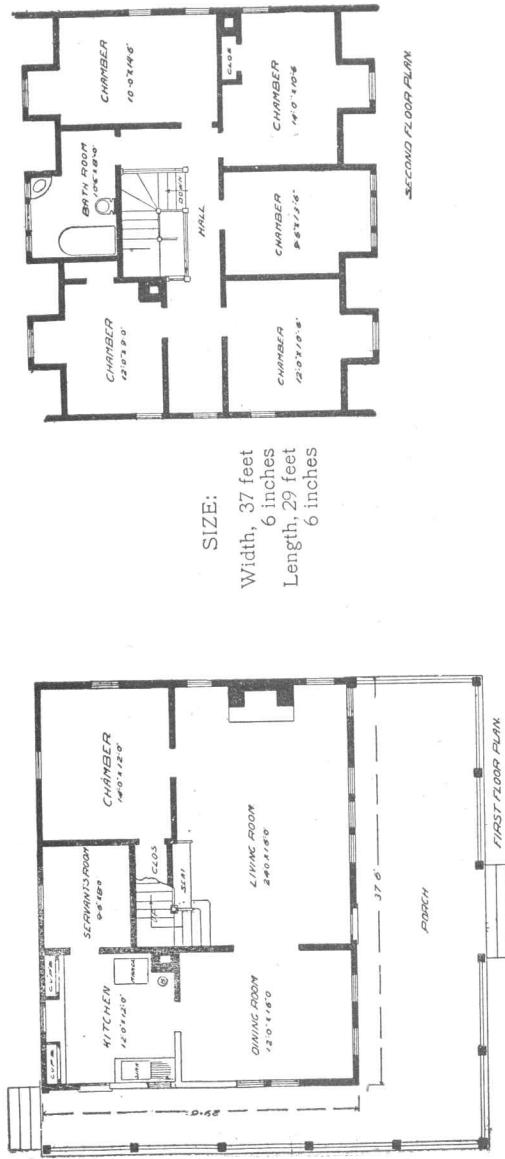
Blue prints consist
of cellar and foundation
plans; floor plans; roof
plan; front and side
elevations.

Complete typewrit-
ten specifications with
each set of plans.

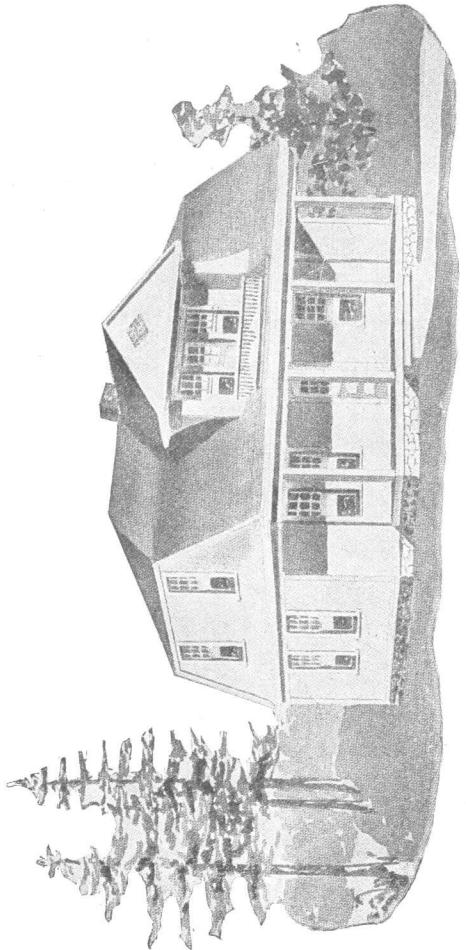


House Design No. 2128

Floor Plans of No. 2128

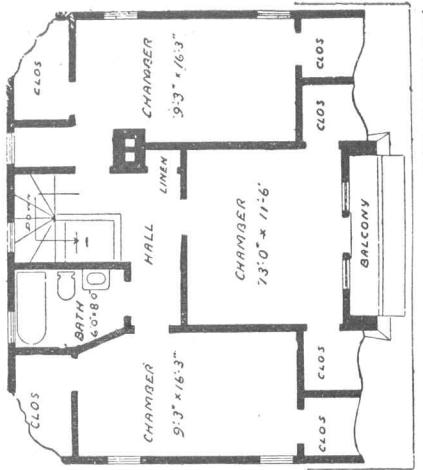


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 2129

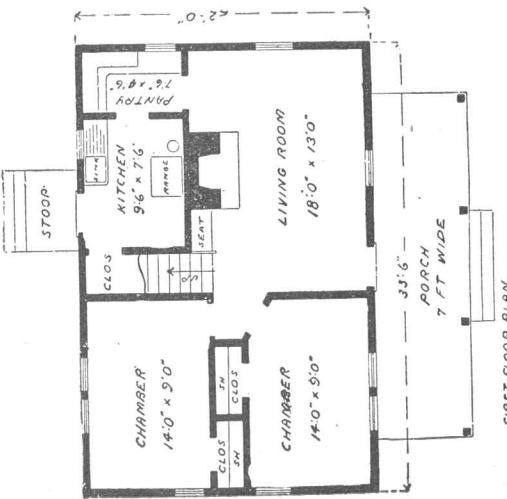
Floor Plans of No. 2129



SECOND FLOOR PLAN

Width, 33 feet 6 inches
Length, 22 feet

SIZE:

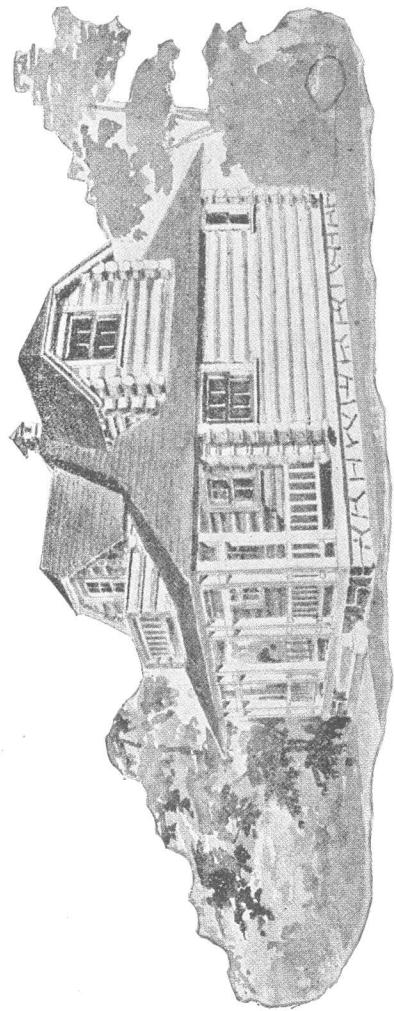


FIRST FLOOR PLAN

Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

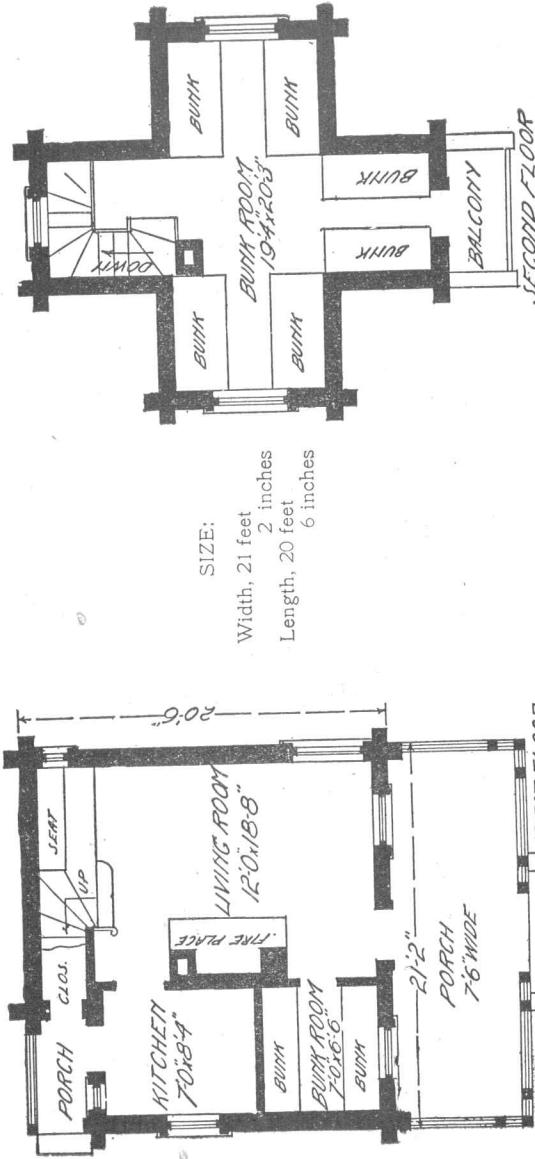
Bungalow Design No. 2130

Price of Plans and \$5.00
Specifications



Full and complete working plans and specifications will be furnished for \$5.00.
Cost of this bungalow is about \$500, according to the locality in which it is built.

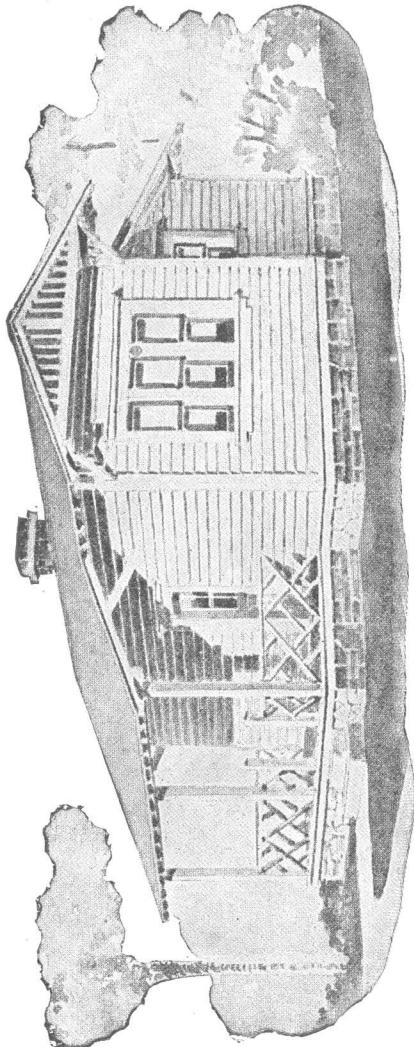
Floor Plans of No. 2130



Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations. Complete written specifications with each set of plans.

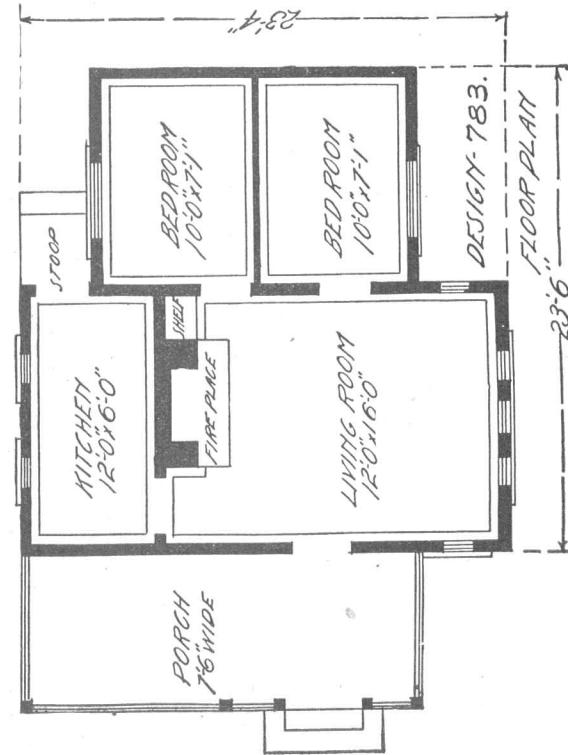
Bungalow Design No. 2131

Price of Plans and \$5.00
Specifications



Full and complete working plans and specifications will be furnished for \$5.00.
Cost of this bungalow is about \$470, according to the locality in which it is built.

Floor Plan of No. 2131



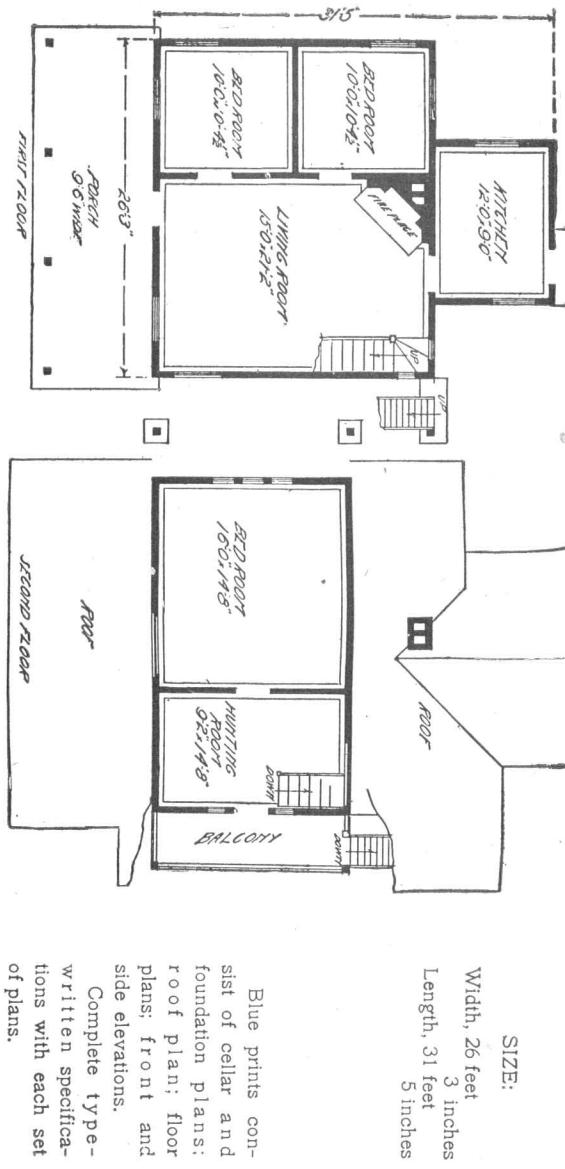
SIZE:

Width, 23 feet
4 inches
Length, 23 feet
6 inches

Blue prints consist of cellar and foundation plans; floor plan; roof plan; front and side elevations.

Complete type-written specifications with each set of plans.

Floor Plans of No. 2132

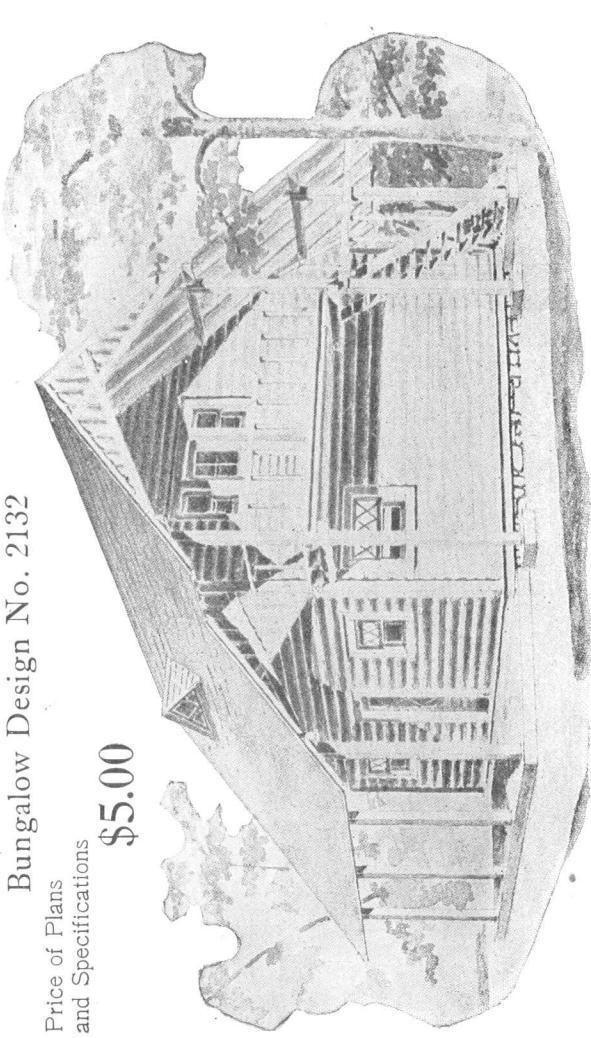


Cost of this bungalow is about \$450, according to the locality in which it is built.
Full and complete working plans and specifications will be furnished for \$5.00.

Bungalow Design No. 2132

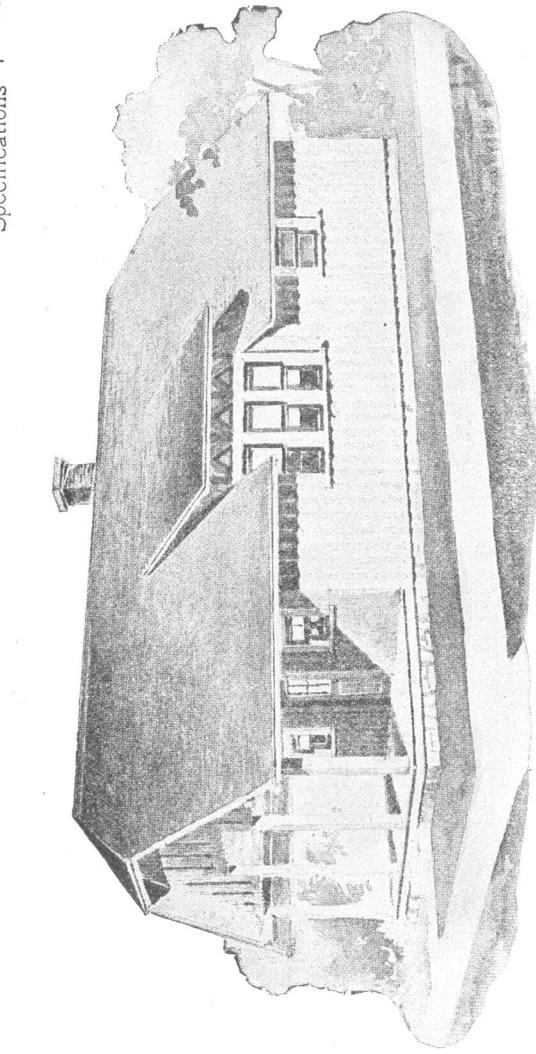
Price of Plans
and Specifications

\$5.00



Bungalow Design No. 2133

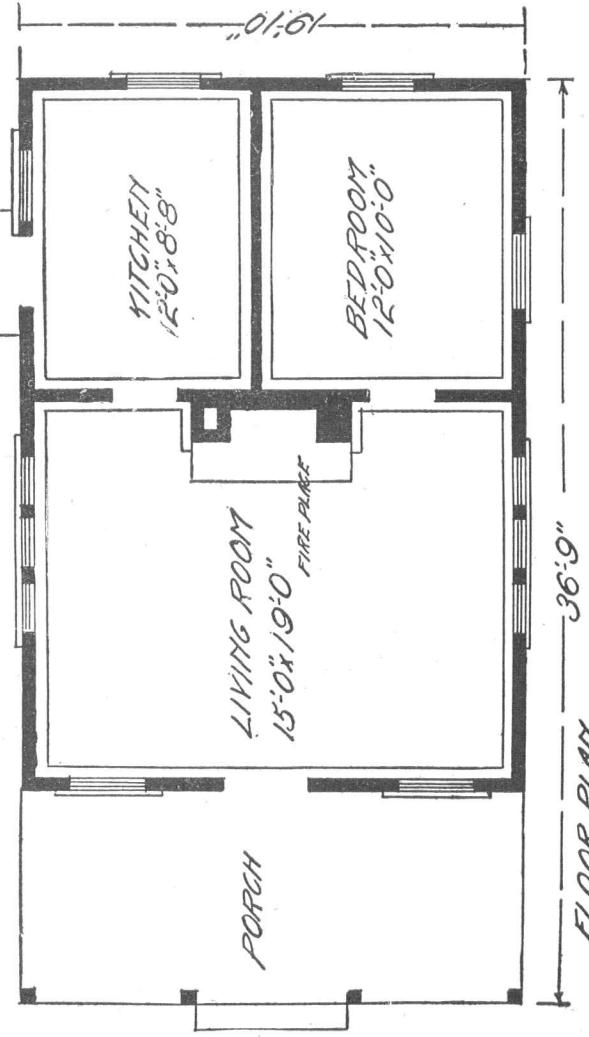
Price of Plans and
Specifications

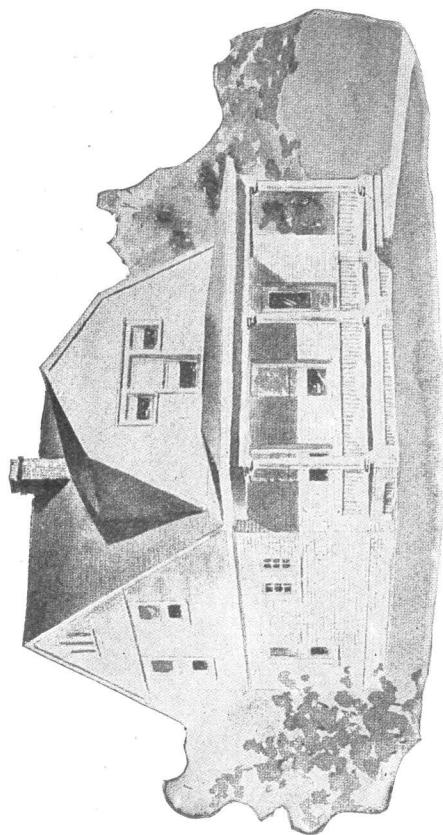


Full and complete working plans and specifications will be furnished for \$5.00.
Cost of this bungalow is about \$250, according to the locality in which it is built.

Floor Plan of No. 2133

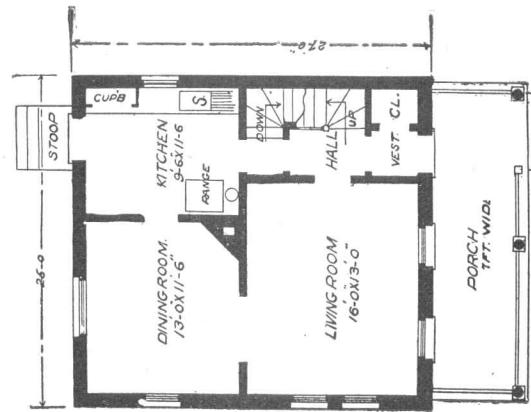
SIZE Width, 19 feet 10 inches Length, 36 feet 9 inches



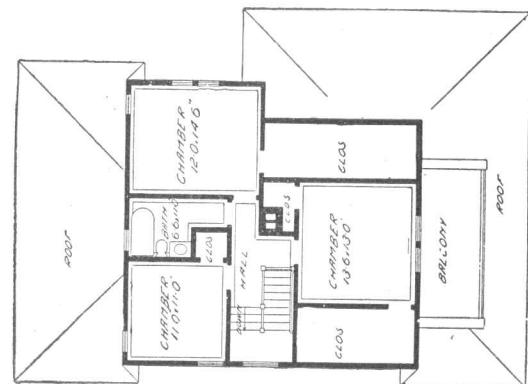


House Design No. 2134

Floor Plans of No. 2134

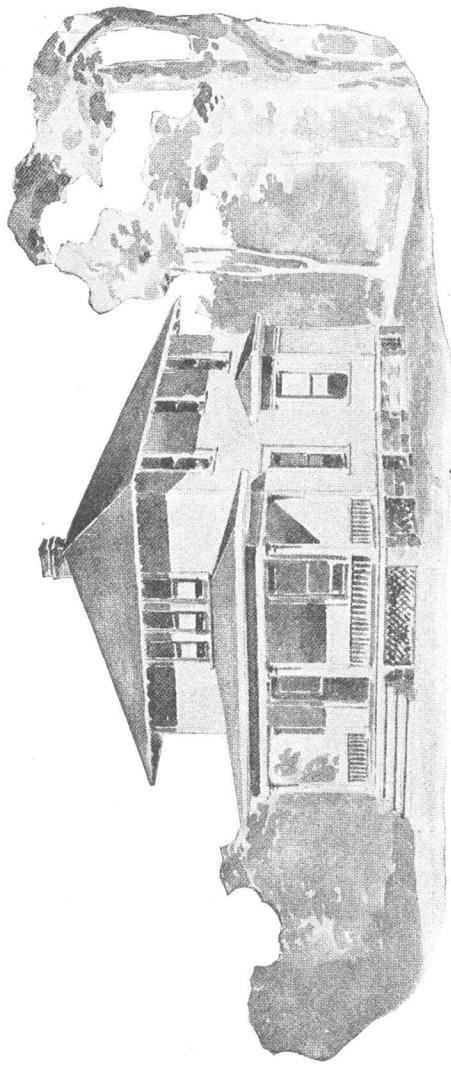


FIRST FLOOR PLAN



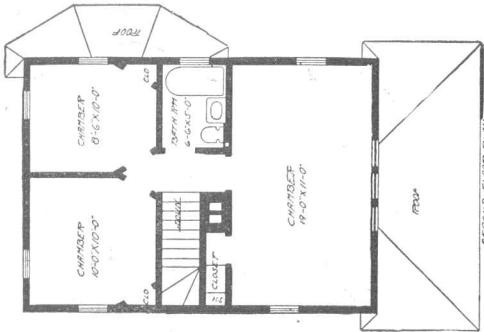
SECOND FLOOR

Blue prints consist of cellar and foundation plans; roof plan; floor plans; front and side elevations.
Complete typewritten specifications with each set of plans.



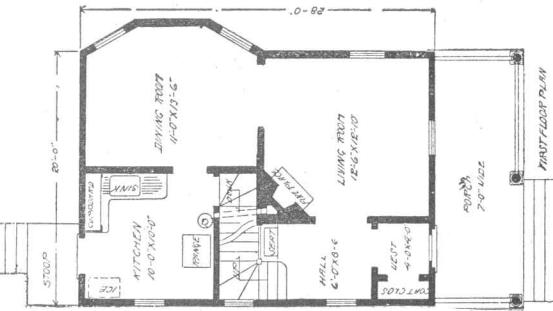
House Design No. 2135

Floor Plans of No. 2135

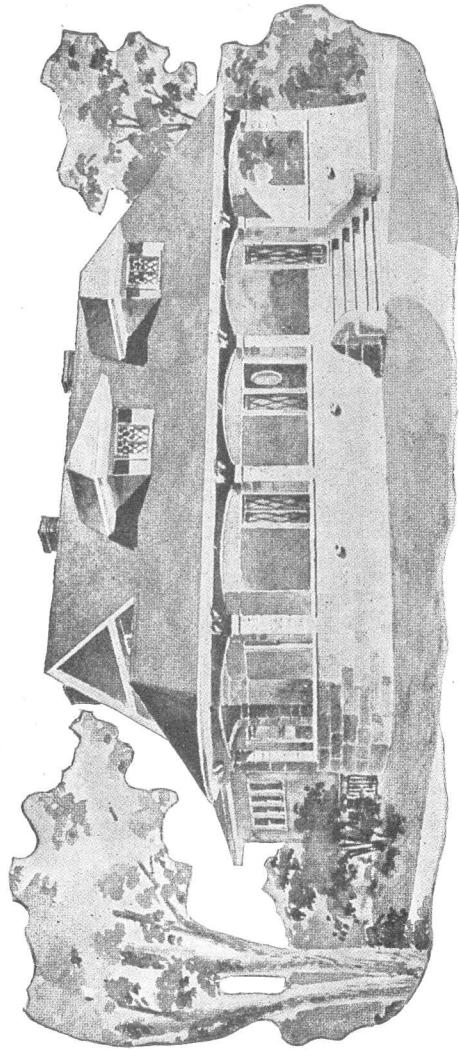


SIZE:

Width, 20 feet
Length, 28 feet



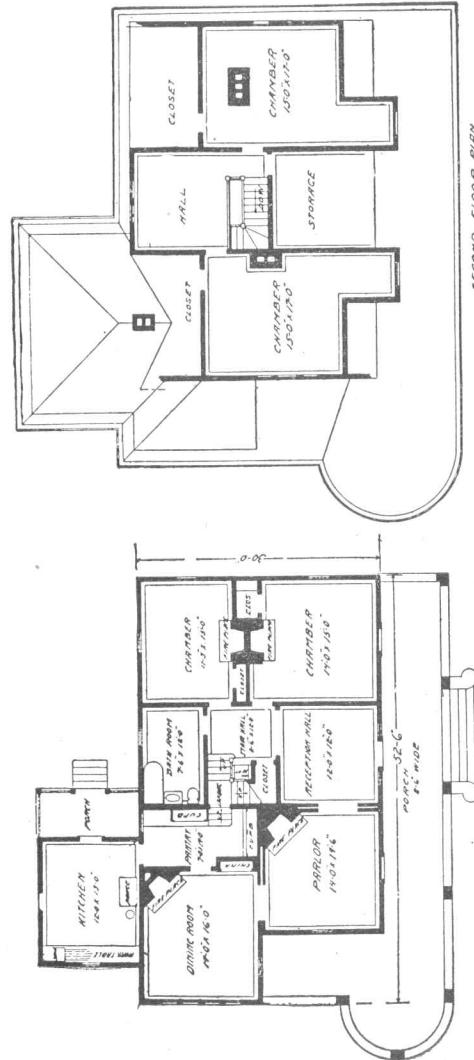
Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



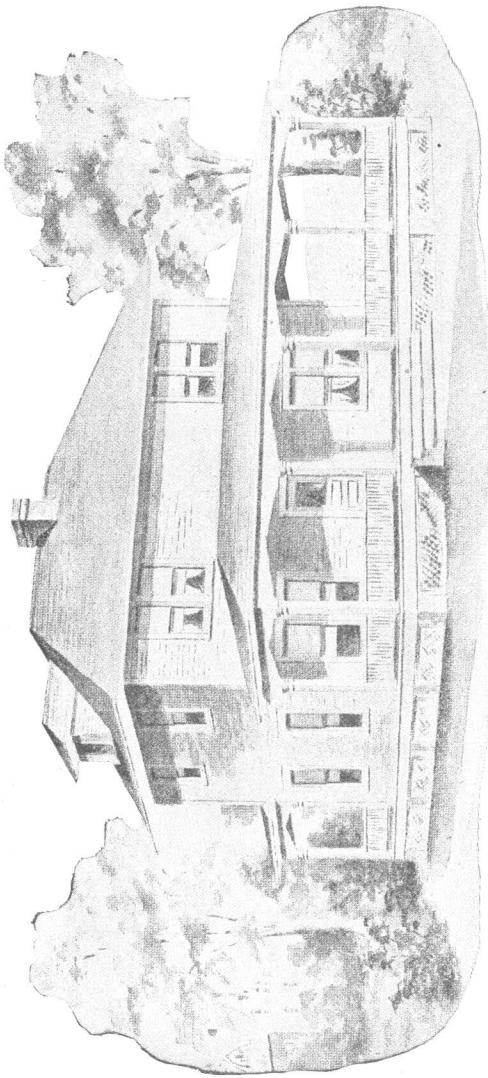
House Design, No. 2136

Floor Plans of No. 2136

Width, 52 feet 6 inches
Length, 42 feet 6 inches
SIZE:

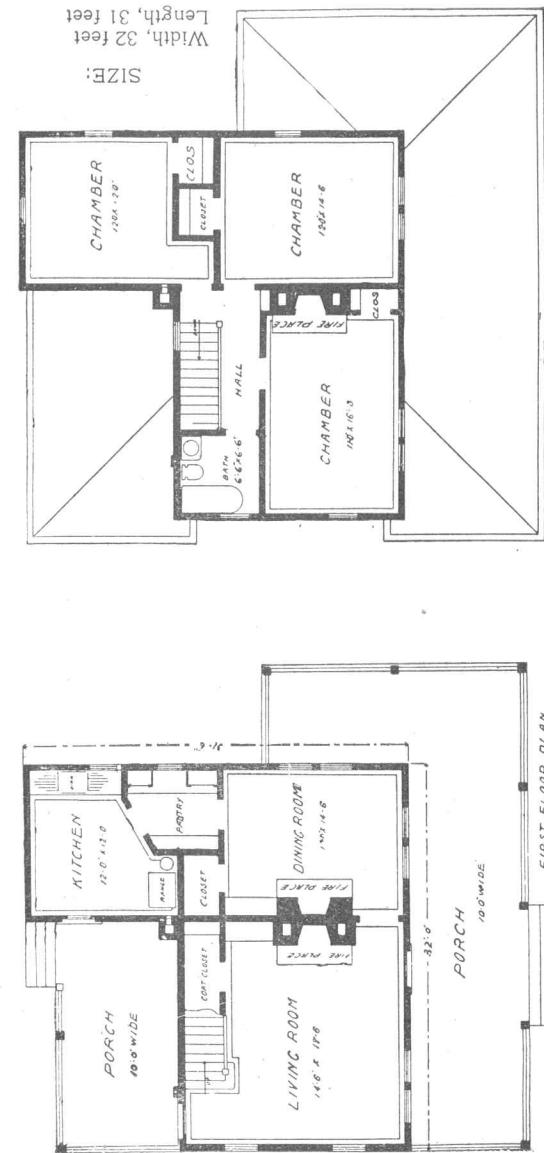


Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.



House Design No. 2137

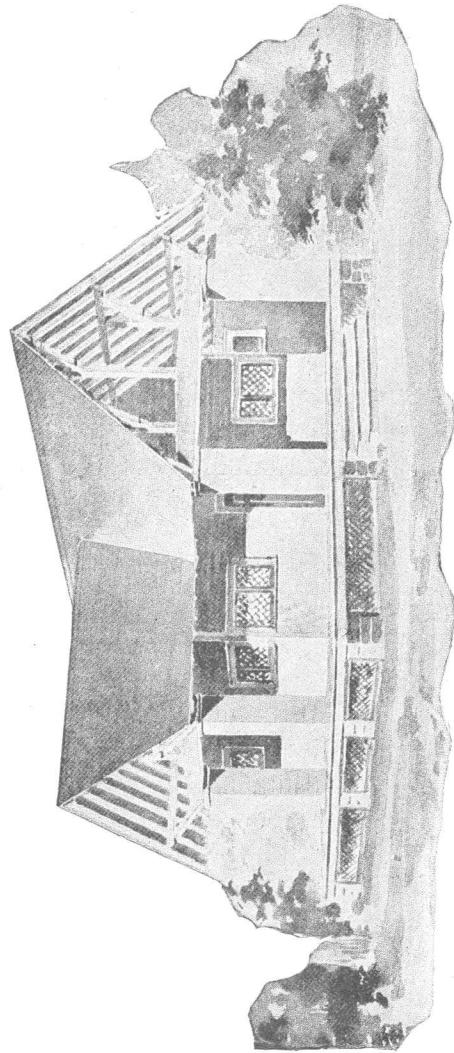
Floor Plans of No. 2137



Blue prints consist of cellar and foundation plans; floor plans; roof plans; front and side elevations.
Complete typewritten specifications with each set of plans.

Bungalow Design No. 2138

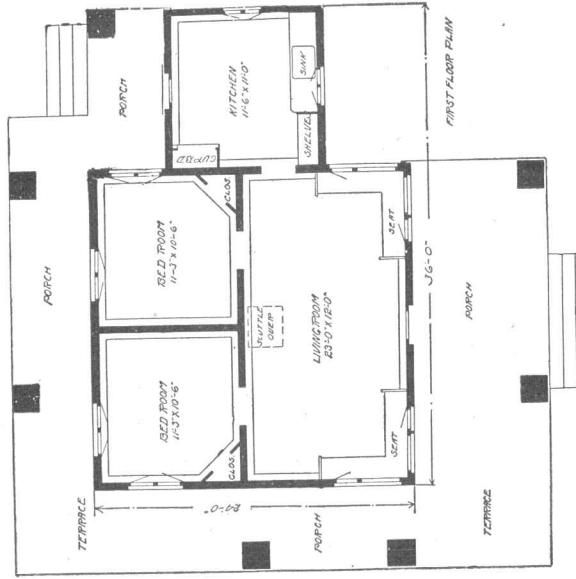
Price of Plans and \$5.00
Specifications



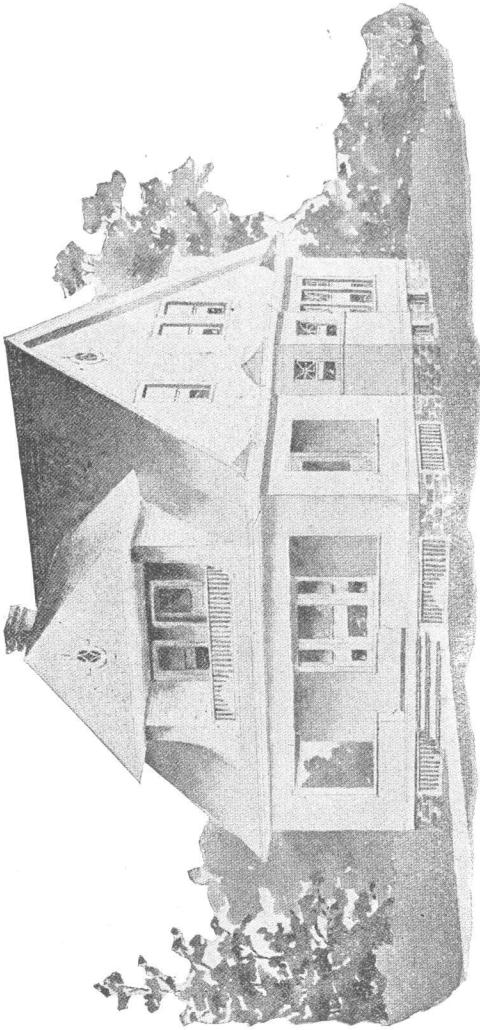
Full and complete working plans and specifications will be furnished for \$5.00
Cost of this bungalow is about \$500, according to the locality in which it is built.

Floor Plans of No. 2138

SIZE:
Width, 36 feet
Length, 24 feet

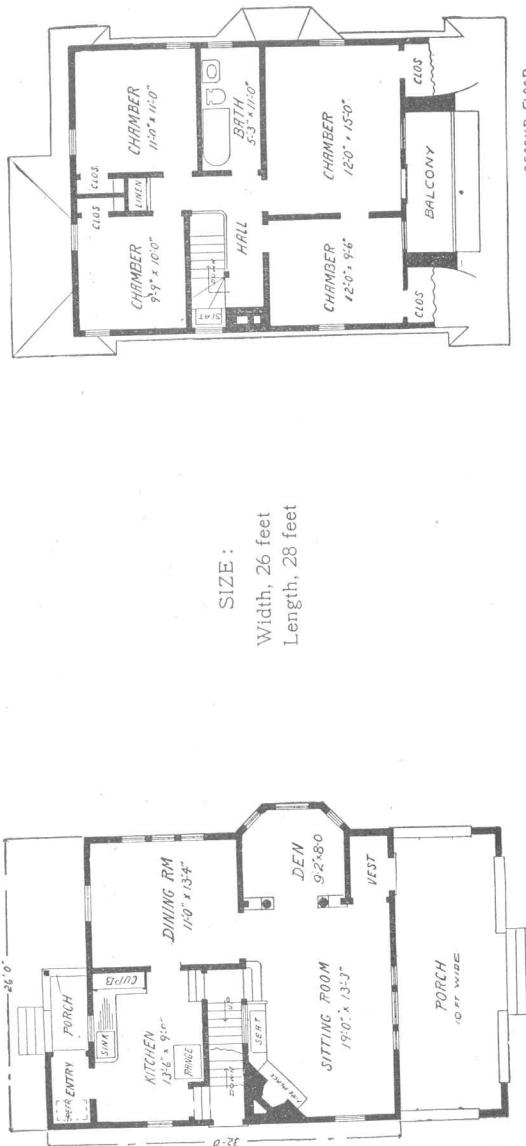


Blue prints consist of cellar and foundation plans; floor plan; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans



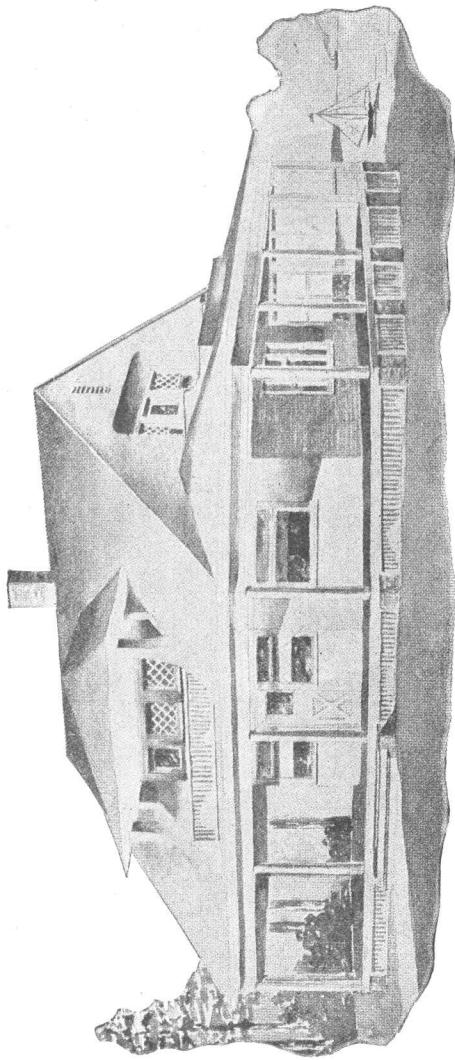
House Design No. 2139

Floor Plans of No. 2139



Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.

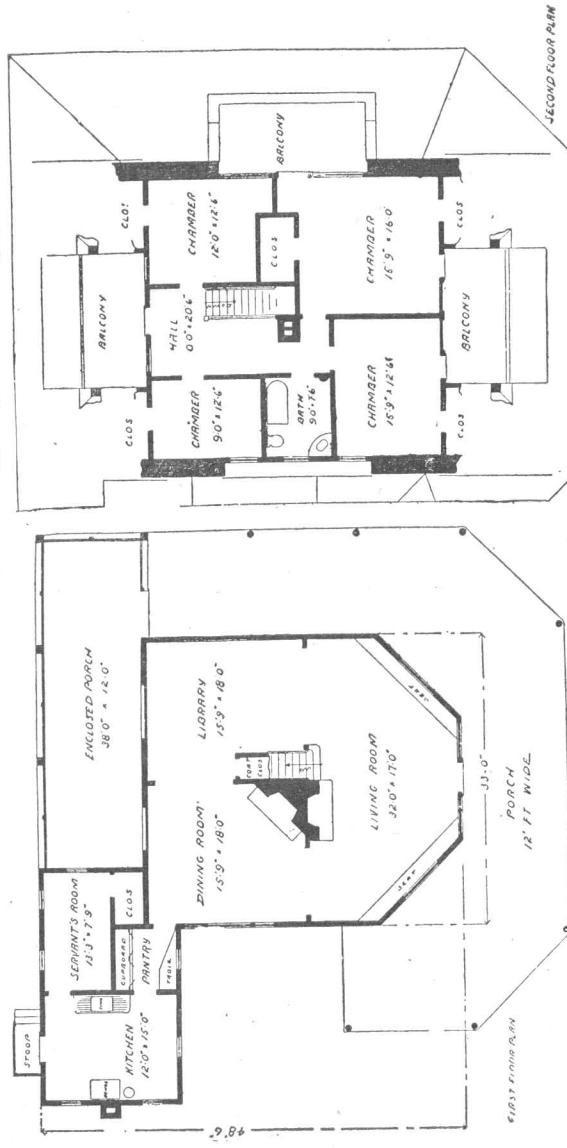
Complete typewritten specifications with each set of plans.



House Design No. 2140

Floor Plans of No. 2140

SIZE:
Width, 66 feet
Length, 64 feet 6 inches



Blue prints consist of cellar and foundation plans; floor plans; roof plan; front and side elevations.
Complete typewritten specifications with each set of plans.

NOTICE

To the many workmen who are purchasing the publications under the authorship of Fred T. Hodgson, and who we feel sure have been benefited by his excellent treatises on many Carpentry and Building subjects, we desire to inform them that the following list of books have been published since 1903, thereby making them strictly up-to-date in every detail. All of the newer books bearing the imprint of Frederick J. Drake & Co. are modern in every respect and of a purely self-educational character, expressly issued for Home Study.

PRACTICAL USES OF THE STEEL SQUARE, two volumes, over 500 pages, including 100 perspective views and floor plans of medium-priced houses. Cloth, two volumes, price \$2.00. Half leather, price \$3.00.

MODERN CARPENTRY AND JOINERY, 300 pages, including 50 house plans, perspective views and floor plans of medium and low-cost houses. Cloth, price \$1.00. Half leather, price \$1.50.

BUILDERS' ARCHITECTURAL DRAWING SELF-TAUGHT, over 350 pages, including 50 house plans. Cloth, price \$2.00. Half leather, price \$3.00.

MODERN ESTIMATOR AND CONTRACTORS' GUIDE, for pricing builders' work, 350 pages, including 50 house plans. Cloth, price \$1.50. Half leather, price \$2.00.

MODERN LOW-COST AMERICAN HOMES, over 200 pages. Cloth, price \$1.00. Half leather, price \$1.50.

PRACTICAL UP-TO-DATE HARDWOOD FINISHER, over 300 pages. Cloth, price \$1.00. Half Leather, price \$1.50.

COMMON SENSE STAIR BUILDING AND HANDRAILING, over 250 pages, including perspective views and floor plans of 50 medium-priced houses. Cloth, price \$1.00. Half leather, price \$1.50.

STONEMASONS' AND BRICKLAYERS' GUIDE, over 200 pages. Cloth, price \$1.50. Half leather, price \$2.00.

PRACTICAL WOOD CARVING, over 200 pages. Cloth, price \$1.50. Half leather, price \$2.00.

Sold by booksellers generally, or sent, all charges paid, upon receipt of price, to any address in the world.

FREDERICK J. DRAKE & CO.
PUBLISHERS OF SELF-EDUCATIONAL BOOKS
350-352 WABASH AVE., CHICAGO, ILL.

Modern Carpentry Vol. 2

ADVANCED SERIES

By Fred T. Hodgson

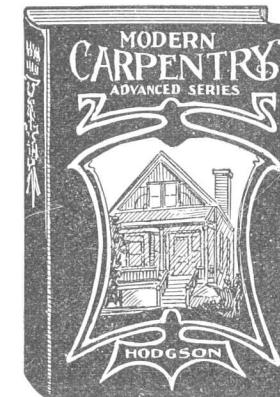
This is a continuation of Mr. Hodgson's first volume on **Modern Carpentry** and is intended to carry the student to a higher plane than is reached by the first volume. The first volume of this series may be considered as the alphabet of the science of carpentry and joinery, while the present volume leads the student into the intricacies of the art and shows how certain difficult problems may be solved with a minimum of labor.

Every progressive workman—and especially those who have purchased the first volume of this series—cannot afford to be without this volume, as it contains so many things necessary the advanced workman should know, and that is likely to crop up at any time during his daily labors. The work is well illustrated with over 100 diagrams, sketches and scale drawings which are fully described and explained in the text. Many puzzling working problems are shown, described and solved. This is truly a valuable aid and assistant for the progressive workman.

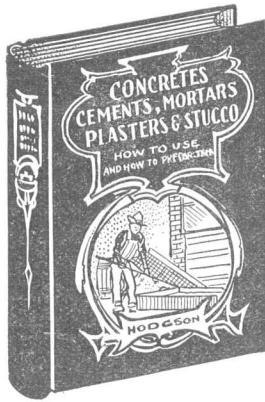
300 pages, fully illustrated. 12mo, cloth, price, \$1.50

Sold by Booksellers generally or sent postpaid to any address upon receipt of price by the Publishers

FREDERICK J. DRAKE & CO.
350-352 WABASH AVE., CHICAGO, U. S. A.



Concretes, Cements, Mortars, Plasters and Stuccos



How to Make and How to Use Them

B

Fred T. Hodgson *Architect*

Architect

THIS is another of Mr. Hodgson's practical works that appeals directly to the workman whose business it is to make and apply the materials named in the title. As far as it has been possible to avoid chemical descriptions of limes, cements and other materials, and theories of no value to the workman, such has been done, and nothing has been admitted into the pages of the work that does not possess a truly practical character.

Concretes and cements have received special attention, and the latest methods of making and using cement building blocks, laying cement sidewalks, putting in concrete foundations, making cement casts and ornaments, are discussed at length. Plastering and stucco work receive a fair share of consideration and the best methods of making and using are described in the usual simple manner so characteristic of Mr. Hodgson's style. The book contains a large number of illustrations of tools, appliances and methods employed in making and applying concretes, cements, mortars, plasters and stucco, which will greatly assist in making it easy for the student to follow and understand the text.

12 Mo. Cloth. *Price, \$1.50*

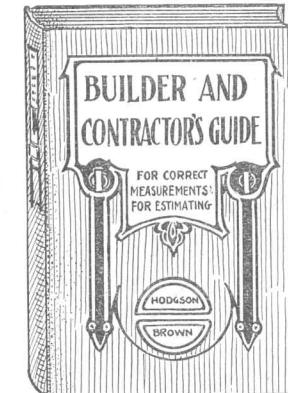
Sold by Booksellers generally or sent postpaid to
any address upon receipt of price by the Publishers

Frederick J. Drake & Co.
350-352 Wabash Ave., CHICAGO, U. S. A.

The Builder and Contractor's Guide

TO CORRECT MEASUREMENTS of areas and cubic contents in all matters relating to buildings of any kind. Illustrated with numerous diagrams, sketches and examples showing how various and intricate measurements should be taken :: :: :: :: :: :: :: :: :: ::

By Fred T. Hodgson, Architect, and W. M. Brown, C.E. and Quantity Surveyor



THIS is a real practical book, showing how all kinds of odd, crooked and difficult measurements may be taken to secure correct results. This work in no way conflicts with any work on estimating as it does not give prices, neither does it attempt to deal with questions of labor or estimate how much the execution of certain works will cost. It simply deals with the questions of areas and cubic contents of any given work and shows how their areas and contents may readily be obtained, and furnishes the regular estimator the data upon which he can base his prices. In fact, the work is a great aid and assistant to the regular estimator and of inestimable value to the general builder and contractor.

12mo, cloth, 300 pages, fully illustrated, price - \$1.50

Sold by Booksellers generally or sent postpaid to
any address upon receipt of price by the Publishers

FREDERICK J. DRAKE & CO.
350-352 WABASH AVE. CHICAGO, U.S.A.

STEAM BOILERS, THEIR CONSTRUCTION, CARE AND OPERATION,

with questions and answers.

BY C. F. SWINGLE, M. E.

A complete modern treatise, fully describing, with illustrations, the steam boiler of various types. Construction and rules for ascertaining the strength for finding safe working pressure. Boiler settings and appurtenances grate surface insulation, cleaning tubes, safety valve calculations, feed pumps, combustion, evaporation tests with rules, strength of boilers, and mechanical stokers. 200 pages, fully illustrated.

The latest and most complete treatise on boilers published. 16mo. Full leather limp binding.

PRICE NET

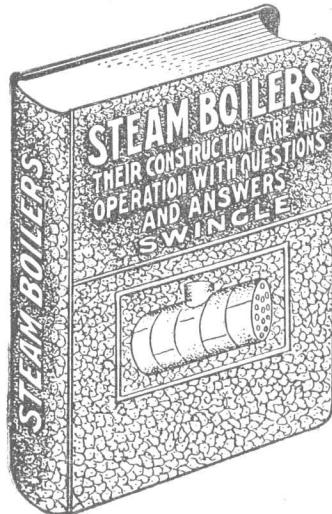
\$1.50

Sent Postpaid to any Address in the World upon Receipt of Price

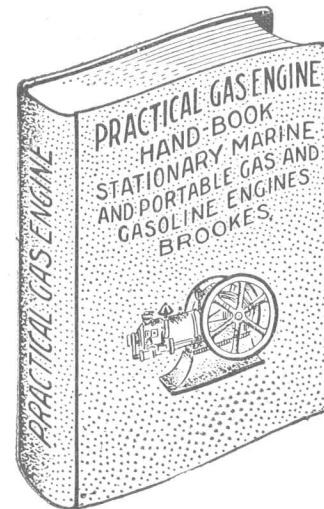
FREDERICK J. DRAKE & CO.

P U B L I S H E R S

350-352 Wabash Avenue, CHICAGO, ILL.



The Practical Gas & Oil Engine HAND-BOOK



A MANUAL of useful information on the care, maintenance and repair of Gas and Oil Engines.

This work gives full and clear instructions on all points relating to the care, maintenance and repair of Stationary, Portable and Marine, Gas and Oil Engines, including How to Start, How to Stop, How to Adjust, How to Repair, How to Test.

Pocket size, 4x6½. Over 200 pages. With numerous rules and formulas and diagrams, and over 50 illustrations by L. ELLIOTT BROOKES, author of the "Construction of a Gasoline Motor," and the "Automobile Hand-Book."

This book has been written with the intention of furnishing practical information regarding gas, gasoline and kerosene engines, for the use of owners, operators and others who may be interested in their construction, operation and management.

In treating the various subjects it has been the endeavor to avoid all technical matter as far as possible, and to present the information given in a clear and practical manner.

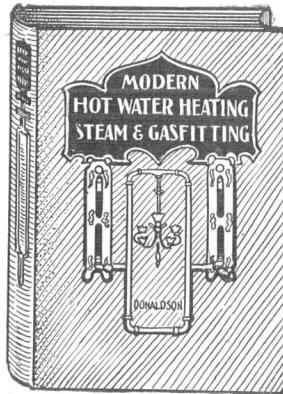
16mo. Popular Edition—Cloth. Price.....\$1.00
Edition de Luxe—Full Leather Limp. Price.....1.50

Sent Postpaid to any Address in the World upon Receipt of Price

FREDERICK J. DRAKE & CO.

P U B L I S H E R S

350-352 Wabash Avenue, CHICAGO, ILL.



Hot Water Heating, Steam and Gas Fitting

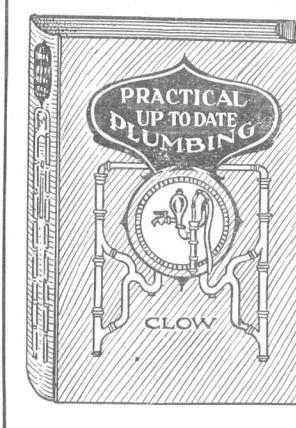
By WM. DONALDSON

A MODERN treatise on Hot Water, Steam and Furnace Heating, and Steam and Gas Fitting, which is intended for the use and information of the owners of buildings and the mechanics who install the heating plants in them. It gives full and concise information with regard to Steam Boilers and Water Heaters and Furnaces, Pipe Systems for Steam and Hot Water Plants, Radiation, Radiator Valves and connections, Systems of Radiation, Heating Surfaces, Pipe and Pipe Fittings, Damper Regulators, Fitters' Tools, Heating Surface of Pipes, Installing a Heating Plant and Specifications. Plans and Elevations of Steam and Hot Water Heating Plants are shown and all other subjects in the book are fully illustrated.

256 pages, 121 illustrations, 12mo, cloth, price, \$1.50

Sold by Booksellers generally or sent postpaid to any address upon receipt of price by the Publishers

FREDERICK J. DRAKE & CO.
350-352 WABASH AVENUE, CHICAGO, U.S.A.



Practical Up-to-Date PLUMBING

By
George B. Clow

Over 150
Illustrations

A PRACTICAL up-to-date work on Sanitary Plumbing, comprising useful information on the wiping and soldering of lead pipe joints and the installation of hot and cold water and drainage systems into modern residences. Including the gravity tank supply and cylinder and tank system of water heating and the pressure cylinder system of water heating. Connections for bath tub. Connections for water closet. Connections for laundry tubs. Connections for wash-bowl or lavatory. A modern bath room. Bath tubs. Lavatories. Closets. Urinals. Laundry tubs. Shower baths. Toilet room in office buildings. Sinks. Faucets. Bibb-cocks. Soil-pipe fittings. Drainage fittings. Plumber's tool kit, etc., etc. 256 pages, 180 illustrations.

12 Mo. Cloth \$1.50

Sold by Booksellers generally or sent postpaid to any address upon receipt of price by the Publishers

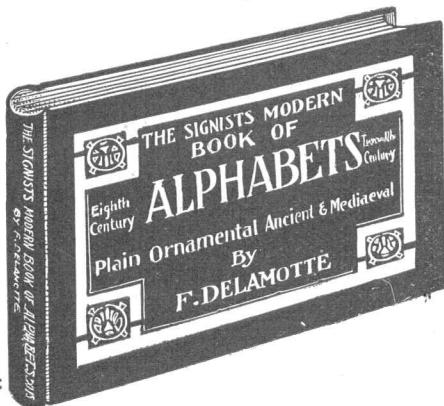
FREDERICK J. DRAKE & CO.
350-352 Wabash Ave., Chicago, U.S.A.

The Signist's Book of Modern Alphabets

Collected
and
Engraved
by F.
Delamotte

Large oblong
octavo, 208
pages, 100
designs
Price, \$1.50

N. B.—We
guarantee this
book to be
the largest and
best work of
this kind
published

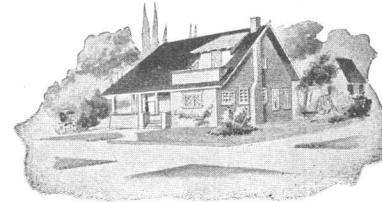


PLAIN and Ornamental, ancient and mediæval, from the Eighth to the Twentieth Century, with numerals. Including German, Old English, Saxon, Italic, Perspective, Greek, Hebrew, Court Hand, Engrossing, Tuscan, Riband, Gothic, Rustic, and Arabesque, with several Original Designs and an Analysis of the Roman and Old English Alphabets, Large, Small, and Numerals, Church Text, Large and Small; German Arabesque; Initials for Illumination, Monograms, Crosses, etc., for the use of Architectural and Engineering Draughtsmen, Surveyors, Masons, Decorative Painters, Lithographers, Engravers, Carvers, etc.

Sold by Booksellers generally or send postpaid to
any address upon receipt of price by the Publishers

Frederick J. Drake & Company
350-352 WABASH AVENUE :: CHICAGO, U.S.A.

PRACTICAL BUNGALOWS AND COTTAGES FOR TOWN AND COUNTRY



THIS BOOK CONTAINS PERSPECTIVE
DRAWINGS AND FLOOR PLANS

OF ONE HUNDRED LOW AND MEDIUM PRICED HOUSES
RANGING FROM FOUR HUNDRED TO FOUR THOUSAND
DOLLARS EACH. ALSO TWENTY-FIVE SELECTED
DESIGNS OF BUNGALOWS FOR SUMMER AND COUNTRY
HOMES, FURNISHING THE PROSPECTIVE BUILDER
WITH MANY NEW AND UP-TO-DATE IDEAS AND SUG-
GESTIONS IN MODERN ARCHITECTURE
THE HOUSES ADVERTISED IN THIS BOOK ARE EN-
TIRELY DIFFERENT IN STYLE FROM THOSE SHOWN
IN HODGSON'S LOW COST HOMES

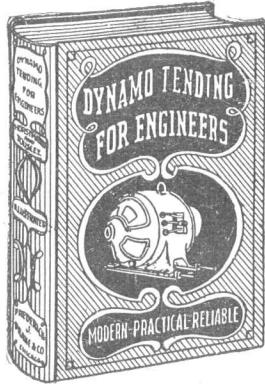
12 MO. CLOTH, 200 PAGES, 300 ILLUSTRATIONS
PRICE, POSTPAID \$1.00

FREDERICK J. DRAKE & CO.

350-352 WABASH AVENUE
CHICAGO

DYNAMO TENDING for ENGINEERS

Or, ELECTRICITY
FOR STEAM ENGINEERS



By HENRY C. HORSTMANN and
VICTOR H. TOUSLEY,
Authors of "Modern Wiring Diagrams and
Descriptions for Electrical Workers."

This excellent treatise is written by engineers for engineers, and is a clear and comprehensive treatise on the principles, construction and operation of Dynamos, Motors, Lamps, Storage Batteries, Indicators and Measuring Instruments, as well as full explanations of the principles governing the generation of alternating currents and a description of alternating current instruments and machinery. There are perhaps but few engineers who have not in the course of their labors come in contact with the electrical apparatus such as pertains to light and power distribution and generation. At the present rate of increase in the use of Electricity it is but a question of time when every steam installation will have in connection with it an electrical generator, even in such buildings where light and power are supplied by some central station. It is essential that the man in charge of Engines, Boilers, Elevators, etc., be familiar with electrical matters, and it cannot well be other than an advantage to him and his employers. It is with a view to assisting engineers and others to obtain such knowledge as will enable them to intelligently manage such electrical apparatus as will ordinarily come under their control that this book has been written. The authors have had the co-operation of the best authorities, each in his chosen field, and the information given is just such as a steam engineer should know.

To further this information, and to more carefully explain the text, nearly 100 illustrations are used, which, with perhaps a very few exceptions, have been especially made for this book. There are many tables covering all sorts of electrical matters, so that immediate reference can be made without resorting to figuring. It covers the subject thoroughly, but so simply that any one can understand it fully. Any one making a pretense to electrical engineering needs this book. Nothing keeps a man down like the lack of training; nothing lifts him up as quickly or as surely as a thorough, practical knowledge of the work he has to do. This book was written for the man without an opportunity. No matter what he is, or what work he has to do, it gives him just such information and training as are required to attain success. It teaches just what the steam engineer should know in his engine room about electricity.

12mo, Cloth, 100 Illustrations. Size 5 $\frac{1}{2}$ x 7 $\frac{3}{4}$. PRICE NET \$1.50
Sold by booksellers generally, or sent, all charges paid, upon receipt of price

FREDERICK J. DRAKE & CO., Publishers
350-352 Wabash Avenue, CHICAGO, ILL.

MODERN ELECTRICAL CONSTRUCTION

By HORSTMANN and TOUSLEY

THIS book treats almost entirely of practical electrical work. It uses the "Rules and Requirements of the National Board of Fire Underwriters" as a text, and explains by numerous cuts and detailed explanations just how the best class of electrical work is installed.

It is a perfect guide for the beginning electrician and gives him all the theory needed in practical work in addition to full practical instructions. For the journeyman electrician it is no less valuable, because it elaborates and explains safety rules in vogue throughout the United States. It is also of especial value to electrical inspectors, as it points out many of the tricks practiced by unscrupulous persons in the trade.

The book also contains a number of tables giving dimensions and trade numbers of screws, nails, insulators and other material

in general use, which will be found of great value in practice: There is also given a method by which the diameter of conduit necessary for any number of wires of any size can be at once determined. The motto of the authors, "To omit nothing that is needed and include nothing that is not needed," that has made "Wiring diagrams and Descriptions" so successful, has been followed in this work. No book of greater value to the man who does the work has ever been published. 16mo, 250 pages, 100 diagrams. Full leather, limp.

Price, net, \$1.50

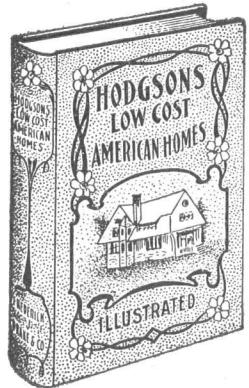
Sent postpaid to any address in the world upon receipt of price

FREDERICK J. DRAKE & CO.
P U B L I S H E R S

350-352 Wabash Avenue, CHICAGO, ILL.

HODGSON'S Low Cost American Homes

Arranged and Edited by
FRED T. HODGSON
Architect

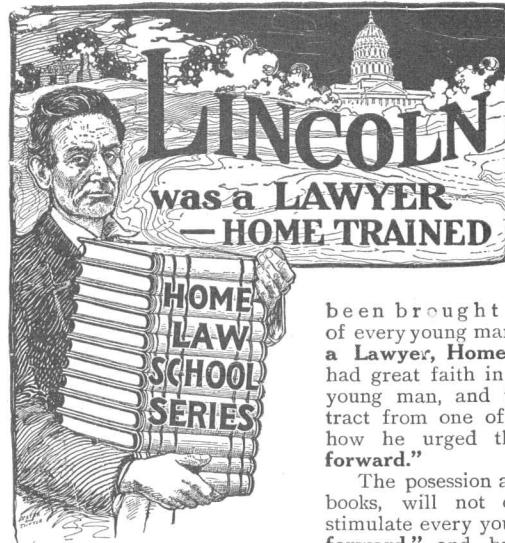


This book contains perspective views and floor plans of one hundred houses, churches, school houses and barns, and is without a doubt the most practical work ever issued. The plans shown have been built from, and many of them duplicated many times over. All are practical, the creation of the well-known author, including many other architects throughout the United States and Canada, and are alike valuable to builders and any one who has in view the erection of a house, etc. The plans are susceptible of slight changes that will adapt them to any taste. The carpenter, remote from the city, needs just such a book to refer to, or to exhibit to his customer so that the latter can give his orders in an intelligible manner. The much desired economy on these structures is not, however, obtained at the expense of beauty—every one of the designs, even the very cheapest, is pleasing to the eye. Following the ideas laid down, the builder is sure to obtain a pretty result. Another result aimed at by Mr. Hodgson is the convenience of internal arrangements. Many a good house has been spoiled by having the much needed closet room omitted. All this has been carefully studied by the practical and experienced architects who have compiled this book, so the owner or working builder who selects a design from this work will be sure to secure all the elegance, convenience and economy possible in the erection of the house. The publishers furnish perfect blue prints, including a book of specifications at the printed prices shown in the book. The average price of blue prints and specifications is \$5.00 per set, and they are just the same as plans which, if prepared especially by an architect, would cost from \$50.00 to \$75.00.

The book contains over 225 pages, nearly 300 illustrations, printed on a superior quality of machine finished paper, durably bound in English cloth with unique designs in two colors of ink.

Price \$1.00

FREDERICK J. DRAKE & CO., Publishers
350-352 Wabash Avenue, CHICAGO, ILL.



THE books of the Home Law School Series are designed especially for young men. Never before has a complete education, in one of the noblest and most practical of the sciences been brought within the reach of every young man. "Lincoln was a Lawyer, Home Trained," who had great faith in the powers of the young man, and the following extract from one of his letters shows how he urged them to "push forward."

The possession and use of a set of books, will not only enable, but stimulate every young man to "push forward," and bring out the best that is in him, attaining a higher and more honored station in life than he could hope to attain without them.

The Lawyer of today is the right-hand to every great business undertaking. In politics and statesmanship, the Lawyer stands pre-eminent. He is credited with judgment and discretion, and his advice controls in all important matters. Every commercial enterprise of any importance has its salaried legal adviser. There is a great demand for young men with a knowledge of law. Any man can

LEARN LAW AT HOME

by the aid of our Home Law School Series, which requires a few hours study occasionally. The Home Law School Series prepares for the Bar in any state; Theory and Practice combined. Approved by Bench, Bar and thousands of successful students. If you are ambitious and wish to push forward, write for free booklet of testimonials. Liberal, easy terms. Special offer now. Address,

FREDERICK J. DRAKE & CO.
354 Wabash Avenue
CHICAGO

WANTED STUDENTS OF LAW FOR AGENTS